

Kopfrechnen mittel(1)

$$\begin{aligned}15 * 1 &= 15 \\15 - -7 &= 22 \\22 : 2 &= 11 \\11 : 11 &= 1 \\1 * 2 &= 2 \\2 - -8 &= 10 \\10 : 10 &= 1 \\1 + 2 &= 3 \\3 + 20 &= 23 \\23 * -4 &= -92 \\-92 * -3 &= 276 \\276 + 12 &= 288 \\288 - -18 &= 306 \\306 - -4 &= 310 \\310 - 18 &= 292 \\292 + -12 &= 280 \\280 * -4 &= -1120 \\-1120 : 7 &= -160 \\-160 * 2 &= -320 \\-320 : 2 &= -160 \\-160 : 10 &= -16 \\-16 * 0 &= 0 \\0 + -5 &= -5 \\-5 - -9 &= 4 \\4 + -10 &= -6 \\-6 : 2 &= -3 \\-3 + -1 &= -4 \\-4 * -3 &= 12 \\12 : 6 &= 2 \\2 : 2 &= 1 \\1 + -15 &= -14 \\-14 - -14 &= 0 \\0 + -19 &= -19 \\-19 * 2 &= -38 \\-38 * 4 &= -152 \\-152 + -12 &= -164 \\-164 * 0 &= 0 \\0 + -5 &= -5\end{aligned}$$

$$\begin{aligned}3 * 5 &= 15 \\15 * -4 &= -60 \\-60 : 6 &= -10 \\-10 - -11 &= 1 \\1 - -16 &= 17 \\17 * -3 &= -51 \\-51 : 3 &= -17 \\-17 + 0 &= -17 \\-17 + 15 &= -2 \\-2 * 3 &= -6 \\-6 : 2 &= -3 \\-3 + 17 &= 14 \\14 * -1 &= -14 \\-14 + 0 &= -14 \\-14 + 20 &= 6 \\6 + -18 &= -12 \\-12 : 6 &= -2 \\-2 - -13 &= 11 \\11 * -2 &= -22 \\-22 * -1 &= 22 \\22 : 11 &= 2 \\2 : 2 &= 1 \\1 - -15 &= 16 \\16 + -16 &= 0 \\0 + -2 &= -2 \\-2 : 2 &= -1 \\-1 * 0 &= 0 \\0 + -13 &= -13 \\-13 + -6 &= -19 \\-19 * 4 &= -76 \\-76 : 4 &= -19 \\-19 + 16 &= -3 \\-3 * -1 &= 3 \\3 * 5 &= 15 \\15 * -1 &= -15 \\-15 : 5 &= -3 \\-3 + -6 &= -9 \\-9 + 10 &= 1 \\17 - 9 &= 8\end{aligned}$$

$$\begin{aligned}8 * 0 &= 0 \\0 + -16 &= -16 \\-16 * -1 &= 16 \\16 : 4 &= 4 \\4 + 20 &= 24 \\24 * 1 &= 24 \\24 : 8 &= 3 \\3 + 16 &= 19 \\19 + 7 &= 26 \\26 : 13 &= 2 \\2 - 0 &= 2 \\2 * -3 &= -6 \\-6 : 2 &= -3 \\-3 : 3 &= -1 \\-1 + -4 &= -5 \\-5 + 20 &= 15 \\15 : 3 &= 5 \\5 + 14 &= 19 \\19 - 2 &= 17 \\17 - 3 &= 14 \\14 + 2 &= 16 \\16 + 19 &= 35 \\35 : 5 &= 7 \\7 * -4 &= -28 \\-28 + -15 &= -43 \\-43 * -1 &= 43 \\43 - 13 &= 30 \\30 - -4 &= 34 \\34 - 14 &= 20 \\20 - 9 &= 11 \\11 * 0 &= 0 \\0 + 19 &= 19 \\19 * 1 &= 19 \\19 + 4 &= 23 \\23 * 0 &= 0 \\0 + 17 &= 17 \\17 - 7 &= 10\end{aligned}$$

Kopfrechnen mittel(2)

$$\begin{aligned}18 - -5 &= 23 \\23 + -8 &= 15 \\15 : 5 &= 3 \\3 : 3 &= 1 \\1 - -17 &= 18 \\18 - 8 &= 10 \\10 - -3 &= 13 \\13 : 13 &= 1 \\1 * 2 &= 2 \\2 + -12 &= -10 \\-10 - -19 &= 9 \\9 + -3 &= 6 \\6 * 1 &= 6 \\6 : 2 &= 3 \\3 + -7 &= -4 \\-4 * 1 &= -4 \\-4 * -1 &= 4 \\4 : 2 &= 2 \\2 : 2 &= 1 \\1 - -11 &= 12 \\12 * 5 &= 60 \\60 : 2 &= 30 \\30 : 2 &= 15 \\15 + -8 &= 7 \\7 * 4 &= 28 \\28 + -17 &= 11 \\11 * -1 &= -11 \\-11 * 0 &= 0 \\0 + -7 &= -7 \\-7 + -3 &= -10 \\-10 * 3 &= -30 \\-30 * 2 &= -60 \\-60 : 10 &= -6 \\-6 * -3 &= 18 \\18 : 2 &= 9 \\9 : 9 &= 1 \\1 * -3 &= -3 \\-3 + 6 &= 3\end{aligned}$$

$$\begin{aligned}17 * 0 &= 0 \\0 + -12 &= -12 \\-12 : 6 &= -2 \\-2 * 2 &= -4 \\-4 + 6 &= 2 \\2 + -8 &= -6 \\-6 + 20 &= 14 \\14 - 5 &= 9 \\9 + -7 &= 2 \\2 + 0 &= 2 \\2 + -7 &= -5 \\-5 + -6 &= -11 \\-11 : 11 &= -1 \\-1 * -3 &= 3 \\3 * -2 &= -6 \\-6 : 2 &= -3 \\-3 + 7 &= 4 \\4 + -12 &= -8 \\-8 - -16 &= 8 \\8 * 3 &= 24 \\24 - -3 &= 27 \\27 - 9 &= 18 \\18 + -18 &= 0 \\0 + 16 &= 16 \\16 + -1 &= 15 \\15 * 3 &= 45 \\45 * 2 &= 90 \\90 + 9 &= 99 \\99 - -17 &= 116 \\116 - 19 &= 97 \\97 - 6 &= 91 \\91 - -5 &= 96 \\96 - -11 &= 107 \\107 + -3 &= 104 \\104 * -2 &= -208 \\-208 * 1 &= -208 \\-208 * -4 &= 832 \\832 + -13 &= 819 \\5 - 4 &= 1\end{aligned}$$

$$\begin{aligned}1 + 3 &= 4 \\4 * 2 &= 8 \\8 * 4 &= 32 \\32 + -4 &= 28 \\28 : 7 &= 4 \\4 + 10 &= 14 \\14 : 7 &= 2 \\2 * 2 &= 4 \\4 : 2 &= 2 \\2 + -5 &= -3 \\-3 - -8 &= 5 \\5 : 5 &= 1 \\1 - -5 &= 6 \\6 - -5 &= 11 \\11 + 4 &= 15 \\15 * -2 &= -30 \\-30 * 1 &= -30 \\-30 : 6 &= -5 \\-5 + 19 &= 14 \\14 + 4 &= 18 \\18 * -3 &= -54 \\-54 * 3 &= -162 \\-162 : 2 &= -81 \\-81 * -4 &= 324 \\324 - -15 &= 339 \\339 + -7 &= 332 \\332 : 2 &= 166 \\166 - 18 &= 148 \\148 - -13 &= 161 \\161 * -1 &= -161 \\-161 * -1 &= 161 \\161 - -17 &= 178 \\178 * -1 &= -178 \\-178 * 4 &= -712 \\-712 + -14 &= -726 \\-726 + 11 &= -715 \\-715 + 8 &= -707\end{aligned}$$

Kopfrechnen mittel(3)

$$\begin{aligned}17 * 4 &= 68 \\68 : 2 &= 34 \\34 - -8 &= 42 \\42 * 0 &= 0 \\0 + -4 &= -4 \\-4 + 16 &= 12 \\12 + -3 &= 9 \\9 * 1 &= 9 \\9 * -3 &= -27 \\-27 * -3 &= 81 \\81 : 9 &= 9 \\9 - 6 &= 3 \\3 : 3 &= 1 \\1 + 2 &= 3 \\3 : 3 &= 1 \\1 + 5 &= 6 \\6 - 2 &= 4 \\4 : 2 &= 2 \\2 - -3 &= 5 \\5 + -2 &= 3 \\3 + 19 &= 22 \\22 - -17 &= 39 \\39 : 13 &= 3 \\3 : 3 &= 1 \\1 * 5 &= 5 \\5 : 5 &= 1 \\1 * 4 &= 4 \\4 : 2 &= 2 \\2 + -9 &= -7 \\-7 + 17 &= 10 \\10 : 5 &= 2 \\2 - -11 &= 13 \\13 + -14 &= -1 \\-1 * 1 &= -1 \\-1 - -3 &= 2 \\2 : 2 &= 1 \\1 + -17 &= -16 \\-16 : 2 &= -8\end{aligned}$$

$$\begin{aligned}14 - 14 &= 0 \\0 + -11 &= -11 \\-11 + 1 &= -10 \\-10 * 2 &= -20 \\-20 + 18 &= -2 \\-2 - -6 &= 4 \\4 + 16 &= 20 \\20 - -3 &= 23 \\23 + -7 &= 16 \\16 - 10 &= 6 \\6 + -2 &= 4 \\4 : 2 &= 2 \\2 * 2 &= 4 \\4 + 17 &= 21 \\21 - 13 &= 8 \\8 + 0 &= 8 \\8 + 10 &= 18 \\18 : 2 &= 9 \\9 : 3 &= 3 \\3 + 19 &= 22 \\22 + -7 &= 15 \\15 : 3 &= 5 \\5 : 5 &= 1 \\1 + -7 &= -6 \\-6 + -19 &= -25 \\-25 + -17 &= -42 \\-42 : 7 &= -6 \\-6 * 0 &= 0 \\0 + 14 &= 14 \\14 - -13 &= 27 \\27 : 9 &= 3 \\3 : 3 &= 1 \\1 * 4 &= 4 \\4 : 2 &= 2 \\2 : 2 &= 1 \\1 + -19 &= -18 \\-18 : 6 &= -3 \\-3 * 3 &= -9 \\4 + -10 &= -6\end{aligned}$$

$$\begin{aligned}-6 + 20 &= 14 \\14 + 7 &= 21 \\21 : 3 &= 7 \\7 + -9 &= -2 \\-2 : 2 &= -1 \\-1 - -16 &= 15 \\15 * 1 &= 15 \\15 * 4 &= 60 \\60 : 4 &= 15 \\15 * 4 &= 60 \\60 - 14 &= 46 \\46 - -13 &= 59 \\59 + -10 &= 49 \\49 + 1 &= 50 \\50 : 5 &= 10 \\10 + 8 &= 18 \\18 - -18 &= 36 \\36 : 6 &= 6 \\6 : 3 &= 2 \\2 + 20 &= 22 \\22 + -6 &= 16 \\16 * -2 &= -32 \\-32 : 2 &= -16 \\-16 + 6 &= -10 \\-10 * 3 &= -30 \\-30 + 18 &= -12 \\-12 - -17 &= 5 \\5 + 16 &= 21 \\21 + -2 &= 19 \\19 * -1 &= -19 \\-19 + 8 &= -11 \\-11 * -3 &= 33 \\33 : 11 &= 3 \\3 + -1 &= 2 \\2 + 7 &= 9 \\9 : 9 &= 1 \\1 - -8 &= 9\end{aligned}$$

Kopfrechnen mittel(4)

$13 - 2 = 11$	$14 + 4 = 18$	$19 * -2 = -38$
$11 * 2 = 22$	$18 : 6 = 3$	$-38 * -1 = 38$
$22 + 8 = 30$	$3 + 10 = 13$	$38 * 4 = 152$
$30 : 3 = 10$	$13 * 4 = 52$	$152 - -9 = 161$
$10 * -2 = -20$	$52 : 2 = 26$	$161 + 13 = 174$
$-20 : 4 = -5$	$26 : 2 = 13$	$174 - 4 = 170$
$-5 + 12 = 7$	$13 - 5 = 8$	$170 - -4 = 174$
$7 * 5 = 35$	$8 * -4 = -32$	$174 : 2 = 87$
$35 - 17 = 18$	$-32 * -2 = 64$	$87 : 3 = 29$
$18 + 0 = 18$	$64 : 2 = 32$	$29 + -13 = 16$
$18 - 4 = 14$	$32 * -2 = -64$	$16 + -12 = 4$
$14 + -6 = 8$	$-64 + -6 = -70$	$4 + 0 = 4$
$8 * -4 = -32$	$-70 : 7 = -10$	$4 * 3 = 12$
$-32 + -17 = -49$	$-10 : 5 = -2$	$12 - -6 = 18$
$-49 : 7 = -7$	$-2 + 16 = 14$	$18 * 5 = 90$
$-7 - -16 = 9$	$14 - 3 = 11$	$90 - -12 = 102$
$9 - -10 = 19$	$11 + -12 = -1$	$102 : 3 = 34$
$19 - -6 = 25$	$-1 * -4 = 4$	$34 + 14 = 48$
$25 * 0 = 0$	$4 * 0 = 0$	$48 - -15 = 63$
$0 + 14 = 14$	$0 + -14 = -14$	$63 * 4 = 252$
$14 - -2 = 16$	$-14 * -3 = 42$	$252 - -13 = 265$
$16 * 2 = 32$	$42 + -7 = 35$	$265 * 2 = 530$
$32 : 2 = 16$	$35 * -1 = -35$	$530 : 2 = 265$
$16 + 5 = 21$	$-35 * 1 = -35$	$265 + -17 = 248$
$21 + 0 = 21$	$-35 : 5 = -7$	$248 * 0 = 0$
$21 - 20 = 1$	$-7 + 7 = 0$	$0 + -8 = -8$
$1 * 3 = 3$	$0 + 1 = 1$	$-8 * -4 = 32$
$3 - -11 = 14$	$1 + -13 = -12$	$32 - -16 = 48$
$14 - 8 = 6$	$-12 * 3 = -36$	$48 * 1 = 48$
$6 + 7 = 13$	$-36 + -10 = -46$	$48 : 4 = 12$
$13 + 16 = 29$	$-46 * 5 = -230$	$12 - -1 = 13$
$29 + 0 = 29$	$-230 * 5 = -1150$	$13 * 1 = 13$
$29 - -15 = 44$	$-1150 + 16 = -1134$	$13 : 13 = 1$
$44 + -5 = 39$	$-1134 : 6 = -189$	$1 + -16 = -15$
$39 + 19 = 58$	$-189 * -1 = 189$	$-15 : 5 = -3$
$58 : 2 = 29$	$189 - 10 = 179$	$-3 * 3 = -9$
$29 * -1 = -29$	$179 * 1 = 179$	$-9 + 9 = 0$
$-29 * -3 = 87$	$179 + 6 = 185$	
	$18 - -1 = 19$	

Kopfrechnen mittel(5)

$3 - 0 = 3$	$14 : 2 = 7$	$-1 + 16 = 15$
$3 * 2 = 6$	$7 * 2 = 14$	$15 * -3 = -45$
$6 : 6 = 1$	$14 : 2 = 7$	$-45 + 0 = -45$
$1 - -18 = 19$	$7 : 7 = 1$	$-45 * 4 = -180$
$19 * 0 = 0$	$1 * -3 = -3$	$-180 * -1 = 180$
$0 + 9 = 9$	$-3 + 13 = 10$	$180 + -9 = 171$
$9 - -3 = 12$	$10 * 1 = 10$	$171 : 9 = 19$
$12 : 6 = 2$	$10 : 5 = 2$	$19 + 15 = 34$
$2 * 0 = 0$	$2 : 2 = 1$	$34 + 12 = 46$
$0 + -5 = -5$	$1 + -15 = -14$	$46 - -15 = 61$
$-5 * 2 = -10$	$-14 + 7 = -7$	$61 * 3 = 183$
$-10 * 2 = -20$	$-7 * -2 = 14$	$183 : 3 = 61$
$-20 + -7 = -27$	$14 + 9 = 23$	$61 * -4 = -244$
$-27 * 3 = -81$	$23 - -12 = 35$	$-244 : 4 = -61$
$-81 : 9 = -9$	$35 + -10 = 25$	$-61 + -17 = -78$
$-9 * 5 = -45$	$25 : 5 = 5$	$-78 + 18 = -60$
$-45 : 9 = -5$	$5 + 0 = 5$	$-60 + 19 = -41$
$-5 : 5 = -1$	$5 - -7 = 12$	$-41 + -6 = -47$
$-1 * 4 = -4$	$12 + -9 = 3$	$-47 + 0 = -47$
$-4 * 4 = -16$	$3 * 4 = 12$	$-47 * -3 = 141$
$-16 + 9 = -7$	$12 + -19 = -7$	$141 : 3 = 47$
$-7 + -10 = -17$	$-7 : 7 = -1$	$47 - 6 = 41$
$-17 + -2 = -19$	$-1 * 4 = -4$	$41 + 20 = 61$
$-19 * -4 = 76$	$-4 : 2 = -2$	$61 - -16 = 77$
$76 + 13 = 89$	$-2 + -4 = -6$	$77 * 2 = 154$
$89 - 12 = 77$	$-6 + -15 = -21$	$154 + 19 = 173$
$77 - -16 = 93$	$-21 * 5 = -105$	$173 * 5 = 865$
$93 + -18 = 75$	$-105 + -16 = -121$	$865 : 5 = 173$
$75 - -5 = 80$	$-121 : 11 = -11$	$173 * 3 = 519$
$80 * 4 = 320$	$-11 - -17 = 6$	$519 - -8 = 527$
$320 + 8 = 328$	$6 - -16 = 22$	$527 - -5 = 532$
$328 * -2 = -656$	$22 + -1 = 21$	$532 * 2 = 1064$
$-656 : 4 = -164$	$21 : 3 = 7$	$1064 - -1 = 1065$
$-164 * -4 = 656$	$7 : 7 = 1$	$1065 - 11 = 1054$
$656 : 8 = 82$	$1 * 2 = 2$	$1054 - 9 = 1045$
$82 : 2 = 41$	$2 * 0 = 0$	$1045 : 11 = 95$
$41 + -18 = 23$	$0 + 10 = 10$	$95 : 5 = 19$
$23 + 11 = 34$	$10 + -2 = 8$	
	$8 + -9 = -1$	

Kopfrechnen mittel(6)

$11 * 1 = 11$	$16 : 4 = 4$	$12 - 7 = 5$
$11 * 1 = 11$	$4 : 2 = 2$	$5 * 4 = 20$
$11 : 11 = 1$	$2 - 0 = 2$	$20 + -19 = 1$
$1 + -5 = -4$	$2 + -13 = -11$	$1 + 6 = 7$
$-4 * 3 = -12$	$-11 * -1 = 11$	$7 + -14 = -7$
$-12 + -4 = -16$	$11 + -2 = 9$	$-7 + 15 = 8$
$-16 : 4 = -4$	$9 + 19 = 28$	$8 - 5 = 3$
$-4 : 2 = -2$	$28 : 2 = 14$	$3 + -18 = -15$
$-2 * 0 = 0$	$14 : 7 = 2$	$-15 : 3 = -5$
$0 + -5 = -5$	$2 * 3 = 6$	$-5 * -1 = 5$
$-5 : 5 = -1$	$6 * -2 = -12$	$5 * 0 = 0$
$-1 * 4 = -4$	$-12 + -19 = -31$	$0 + 10 = 10$
$-4 + -4 = -8$	$-31 + -5 = -36$	$10 : 5 = 2$
$-8 : 4 = -2$	$-36 + -7 = -43$	$2 * 3 = 6$
$-2 : 2 = -1$	$-43 * 4 = -172$	$6 - -17 = 23$
$-1 - -19 = 18$	$-172 * 1 = -172$	$23 + -18 = 5$
$18 : 3 = 6$	$-172 + -17 = -189$	$5 * 1 = 5$
$6 * 4 = 24$	$-189 + 18 = -171$	$5 * 3 = 15$
$24 - 2 = 22$	$-171 + -14 = -185$	$15 * 4 = 60$
$22 - 4 = 18$	$-185 + 18 = -167$	$60 - 9 = 51$
$18 + -4 = 14$	$-167 + -15 = -182$	$51 - -14 = 65$
$14 + 17 = 31$	$-182 * -3 = 546$	$65 - -11 = 76$
$31 + 7 = 38$	$546 * 2 = 1092$	$76 - -10 = 86$
$38 - 2 = 36$	$1092 - -13 = 1105$	$86 + -6 = 80$
$36 + 18 = 54$	$1105 : 5 = 221$	$80 * 4 = 320$
$54 - 19 = 35$	$221 - 16 = 205$	$320 : 8 = 40$
$35 : 5 = 7$	$205 * 0 = 0$	$40 - -11 = 51$
$7 : 7 = 1$	$0 + 20 = 20$	$51 : 3 = 17$
$1 - -11 = 12$	$20 * 3 = 60$	$17 + 3 = 20$
$12 + 16 = 28$	$60 * 4 = 240$	$20 : 10 = 2$
$28 - 0 = 28$	$240 : 6 = 40$	$2 + -7 = -5$
$28 * -1 = -28$	$40 : 10 = 4$	$-5 * 4 = -20$
$-28 * 4 = -112$	$4 * -4 = -16$	$-20 * 2 = -40$
$-112 + 17 = -95$	$-16 * 5 = -80$	$-40 * 5 = -200$
$-95 * -4 = 380$	$-80 + -17 = -97$	$-200 + -5 = -205$
$380 - 20 = 360$	$-97 * -3 = 291$	$-205 : 5 = -41$
$360 - -7 = 367$	$291 * -3 = -873$	$-41 + 0 = -41$
$367 - -6 = 373$	$-873 + 11 = -862$	
	$6 + 6 = 12$	

Kopfrechnen mittel(7)

$7 + 5 = 12$	$14 * 5 = 70$	$5 - -9 = 14$
$12 : 4 = 3$	$70 : 2 = 35$	$14 : 7 = 2$
$3 * -4 = -12$	$35 - -5 = 40$	$2 - -9 = 11$
$-12 : 6 = -2$	$40 : 8 = 5$	$11 : 11 = 1$
$-2 * 5 = -10$	$5 - -12 = 17$	$1 * -3 = -3$
$-10 + 4 = -6$	$17 + 12 = 29$	$-3 - -18 = 15$
$-6 * -1 = 6$	$29 - -1 = 30$	$15 * 2 = 30$
$6 * 1 = 6$	$30 + -16 = 14$	$30 - 0 = 30$
$6 + -9 = -3$	$14 : 2 = 7$	$30 : 6 = 5$
$-3 * 1 = -3$	$7 - -9 = 16$	$5 : 5 = 1$
$-3 * -2 = 6$	$16 - -9 = 25$	$1 + 5 = 6$
$6 * 1 = 6$	$25 * -2 = -50$	$6 * -4 = -24$
$6 : 6 = 1$	$-50 + 15 = -35$	$-24 : 6 = -4$
$1 + 0 = 1$	$-35 : 5 = -7$	$-4 : 4 = -1$
$1 - -15 = 16$	$-7 * 5 = -35$	$-1 - -4 = 3$
$16 * -1 = -16$	$-35 + -5 = -40$	$3 * 1 = 3$
$-16 + 15 = -1$	$-40 * -1 = 40$	$3 * 5 = 15$
$-1 * -4 = 4$	$40 * -2 = -80$	$15 : 5 = 3$
$4 * -1 = -4$	$-80 : 4 = -20$	$3 * 2 = 6$
$-4 : 4 = -1$	$-20 * 3 = -60$	$6 + 5 = 11$
$-1 * 3 = -3$	$-60 + 19 = -41$	$11 : 11 = 1$
$-3 : 3 = -1$	$-41 * -1 = 41$	$1 - -10 = 11$
$-1 - -1 = 0$	$41 * -1 = -41$	$11 + -1 = 10$
$0 + -19 = -19$	$-41 + -11 = -52$	$10 - -13 = 23$
$-19 * 5 = -95$	$-52 + 5 = -47$	$23 + 10 = 33$
$-95 + 3 = -92$	$-47 + -3 = -50$	$33 + 2 = 35$
$-92 : 2 = -46$	$-50 + 11 = -39$	$35 + -15 = 20$
$-46 * 2 = -92$	$-39 * -4 = 156$	$20 : 4 = 5$
$-92 * 0 = 0$	$156 + -16 = 140$	$5 * 2 = 10$
$0 + 12 = 12$	$140 : 4 = 35$	$10 : 10 = 1$
$12 * -1 = -12$	$35 * -4 = -140$	$1 - -7 = 8$
$-12 * -2 = 24$	$-140 * 1 = -140$	$8 - -3 = 11$
$24 - 13 = 11$	$-140 + -8 = -148$	$11 * 2 = 22$
$11 * -3 = -33$	$-148 + 3 = -145$	$22 - 4 = 18$
$-33 + 19 = -14$	$-145 + 12 = -133$	$18 : 6 = 3$
$-14 + 17 = 3$	$-133 * 5 = -665$	$3 : 3 = 1$
$3 * -3 = -9$	$-665 + 10 = -655$	$1 + -8 = -7$
$-9 * 5 = -45$	$-655 + 17 = -638$	
	$1 * 5 = 5$	

Kopfrechnen mittel(8)

$5 : 5 = 1$	$17 + 6 = 23$	$80 + 12 = 92$
$1 - -16 = 17$	$23 + -19 = 4$	$92 : 2 = 46$
$17 - -6 = 23$	$4 + -19 = -15$	$46 + -7 = 39$
$23 + 18 = 41$	$-15 * 2 = -30$	$39 : 3 = 13$
$41 * 5 = 205$	$-30 * 5 = -150$	$13 + 8 = 21$
$205 * -1 = -205$	$-150 * 0 = 0$	$21 : 3 = 7$
$-205 + -4 = -209$	$0 + 6 = 6$	$7 : 7 = 1$
$-209 + -12 = -221$	$6 * 5 = 30$	$1 - -12 = 13$
$-221 + -19 = -240$	$30 - 8 = 22$	$13 : 13 = 1$
$-240 * 5 = -1200$	$22 + 11 = 33$	$1 + -6 = -5$
$-1200 + 14 = -1186$	$33 - -19 = 52$	$-5 * 2 = -10$
$-1186 * 5 = -5930$	$52 - 2 = 50$	$-10 - -10 = 0$
$-5930 * 2 = -11860$	$50 * 5 = 250$	$0 + 17 = 17$
$-11860 * 5 = -59300$	$250 : 2 = 125$	$17 * -4 = -68$
$-59300 : 5 = -11860$	$125 * -4 = -500$	$-68 + -15 = -83$
$-11860 + 4 = -11856$	$-500 : 5 = -100$	$-83 + -5 = -88$
$-11856 : 2 = -5928$	$-100 : 10 = -10$	$-88 : 2 = -44$
$-5928 : 6 = -988$	$-10 * 0 = 0$	$-44 + -11 = -55$
$-988 : 4 = -247$	$0 + 18 = 18$	$-55 + -13 = -68$
$-247 : 13 = -19$	$18 - -14 = 32$	$-68 * 5 = -340$
$-19 * 4 = -76$	$32 : 8 = 4$	$-340 + -14 = -354$
$-76 * -4 = 304$	$4 - -18 = 22$	$-354 : 3 = -118$
$304 * 0 = 0$	$22 + -13 = 9$	$-118 * -3 = 354$
$0 + 0 = 0$	$9 : 3 = 3$	$354 + 7 = 361$
$0 + -4 = -4$	$3 - -11 = 14$	$361 + -8 = 353$
$-4 + -18 = -22$	$14 * -1 = -14$	$353 - 9 = 344$
$-22 + 9 = -13$	$-14 : 2 = -7$	$344 : 4 = 86$
$-13 + -11 = -24$	$-7 + 5 = -2$	$86 : 2 = 43$
$-24 * 1 = -24$	$-2 + 19 = 17$	$43 - -17 = 60$
$-24 : 2 = -12$	$17 + -10 = 7$	$60 - 16 = 44$
$-12 * 2 = -24$	$7 - -9 = 16$	$44 : 2 = 22$
$-24 : 4 = -6$	$16 + -3 = 13$	$22 + 2 = 24$
$-6 - -19 = 13$	$13 : 13 = 1$	$24 : 6 = 4$
$13 - 13 = 0$	$1 + 17 = 18$	$4 + -9 = -5$
$0 + 8 = 8$	$18 * -4 = -72$	$-5 + -11 = -16$
$8 * 2 = 16$	$-72 * -4 = 288$	$-16 * 0 = 0$
$16 - 8 = 8$	$288 : 12 = 24$	$0 + -12 = -12$
$8 + 3 = 11$	$24 * -1 = -24$	
	$16 * 5 = 80$	

Kopfrechnen mittel(9)

$10 * -4 = -40$	$3 + 2 = 5$	$-56 : 8 = -7$
$-40 + 13 = -27$	$5 : 5 = 1$	$-7 : 7 = -1$
$-27 : 9 = -3$	$1 * 5 = 5$	$-1 - -18 = 17$
$-3 : 3 = -1$	$5 + 5 = 10$	$17 + -14 = 3$
$-1 * 3 = -3$	$10 : 5 = 2$	$3 : 3 = 1$
$-3 * -1 = 3$	$2 + -6 = -4$	$1 * 2 = 2$
$3 * -4 = -12$	$-4 * 5 = -20$	$2 * -1 = -2$
$-12 * 3 = -36$	$-20 * 5 = -100$	$-2 + -1 = -3$
$-36 * -4 = 144$	$-100 : 5 = -20$	$-3 * 2 = -6$
$144 + -4 = 140$	$-20 : 4 = -5$	$-6 : 2 = -3$
$140 : 10 = 14$	$-5 * 0 = 0$	$-3 : 3 = -1$
$14 - 12 = 2$	$0 + -7 = -7$	$-1 + -3 = -4$
$2 + 11 = 13$	$-7 + 1 = -6$	$-4 : 4 = -1$
$13 - 3 = 10$	$-6 + 2 = -4$	$-1 * -2 = 2$
$10 + 3 = 13$	$-4 + -11 = -15$	$2 : 2 = 1$
$13 : 13 = 1$	$-15 * 2 = -30$	$1 + -8 = -7$
$1 * 1 = 1$	$-30 + -17 = -47$	$-7 - -9 = 2$
$1 * 3 = 3$	$-47 * 3 = -141$	$2 - -12 = 14$
$3 + -4 = -1$	$-141 : 3 = -47$	$14 - -18 = 32$
$-1 * -2 = 2$	$-47 + 6 = -41$	$32 : 2 = 16$
$2 * 5 = 10$	$-41 + -14 = -55$	$16 : 4 = 4$
$10 + 0 = 10$	$-55 + -3 = -58$	$4 + 12 = 16$
$10 * -2 = -20$	$-58 : 2 = -29$	$16 * 3 = 48$
$-20 * 0 = 0$	$-29 * 1 = -29$	$48 * 2 = 96$
$0 + -15 = -15$	$-29 * -4 = 116$	$96 + -8 = 88$
$-15 * 4 = -60$	$116 + -4 = 112$	$88 * -1 = -88$
$-60 * 0 = 0$	$112 : 2 = 56$	$-88 + 1 = -87$
$0 + -13 = -13$	$56 : 8 = 7$	$-87 * 1 = -87$
$-13 * 5 = -65$	$7 - -4 = 11$	$-87 + -8 = -95$
$-65 + -6 = -71$	$11 + 20 = 31$	$-95 : 5 = -19$
$-71 * 3 = -213$	$31 + -14 = 17$	$-19 + -17 = -36$
$-213 + 15 = -198$	$17 - -4 = 21$	$-36 : 4 = -9$
$-198 : 9 = -22$	$21 - -11 = 32$	$-9 * 1 = -9$
$-22 + 1 = -21$	$32 - 7 = 25$	$-9 : 9 = -1$
$-21 + 6 = -15$	$25 : 5 = 5$	$-1 + -2 = -3$
$-15 + -19 = -34$	$5 + -19 = -14$	$-3 * -2 = 6$
$-34 * -2 = 68$	$-14 * 1 = -14$	$6 * 4 = 24$
$68 + 13 = 81$	$-14 + -3 = -17$	
	$14 * -4 = -56$	

Kopfrechnen mittel(10)

$8 : 4 = 2$	$16 * -2 = -32$	$26 - 16 = 10$
$2 * 0 = 0$	$-32 * -2 = 64$	$10 * 0 = 0$
$0 + -1 = -1$	$64 * 2 = 128$	$0 + -6 = -6$
$-1 * 4 = -4$	$128 : 8 = 16$	$-6 + -2 = -8$
$-4 * 5 = -20$	$16 + 8 = 24$	$-8 * 1 = -8$
$-20 : 2 = -10$	$24 + 16 = 40$	$-8 + 4 = -4$
$-10 : 10 = -1$	$40 : 5 = 8$	$-4 * 1 = -4$
$-1 + -15 = -16$	$8 * 2 = 16$	$-4 * -3 = 12$
$-16 : 4 = -4$	$16 : 4 = 4$	$12 + -6 = 6$
$-4 - -6 = 2$	$4 + -12 = -8$	$6 * -4 = -24$
$2 : 2 = 1$	$-8 * 4 = -32$	$-24 + -13 = -37$
$1 + 17 = 18$	$-32 * -2 = 64$	$-37 + 0 = -37$
$18 : 3 = 6$	$64 * 0 = 0$	$-37 + 11 = -26$
$6 + -6 = 0$	$0 + -18 = -18$	$-26 + -14 = -40$
$0 + -10 = -10$	$-18 : 6 = -3$	$-40 + 11 = -29$
$-10 : 2 = -5$	$-3 * 3 = -9$	$-29 * -3 = 87$
$-5 + -18 = -23$	$-9 : 3 = -3$	$87 + -19 = 68$
$-23 + -19 = -42$	$-3 * -2 = 6$	$68 : 2 = 34$
$-42 * 3 = -126$	$6 - -11 = 17$	$34 - -19 = 53$
$-126 : 9 = -14$	$17 + 1 = 18$	$53 * 0 = 0$
$-14 + 12 = -2$	$18 * 5 = 90$	$0 + 12 = 12$
$-2 * 4 = -8$	$90 - -3 = 93$	$12 * 2 = 24$
$-8 : 2 = -4$	$93 : 3 = 31$	$24 + 10 = 34$
$-4 - -11 = 7$	$31 - -15 = 46$	$34 - 16 = 18$
$7 + -10 = -3$	$46 - -10 = 56$	$18 + -17 = 1$
$-3 * 5 = -15$	$56 + 19 = 75$	$1 * -3 = -3$
$-15 - -15 = 0$	$75 + 1 = 76$	$-3 * -2 = 6$
$0 + 6 = 6$	$76 - 13 = 63$	$6 + -8 = -2$
$6 * -4 = -24$	$63 : 7 = 9$	$-2 : 2 = -1$
$-24 : 3 = -8$	$9 - -18 = 27$	$-1 * -4 = 4$
$-8 : 2 = -4$	$27 + -9 = 18$	$4 - -12 = 16$
$-4 * 3 = -12$	$18 * 3 = 54$	$16 - -19 = 35$
$-12 + 14 = 2$	$54 - -10 = 64$	$35 + -14 = 21$
$2 * 4 = 8$	$64 : 4 = 16$	$21 + 15 = 36$
$8 : 8 = 1$	$16 - -16 = 32$	$36 * -4 = -144$
$1 + -19 = -18$	$32 * 0 = 0$	$-144 : 2 = -72$
$-18 + -19 = -37$	$0 + 8 = 8$	$-72 * 1 = -72$
$-37 + 15 = -22$	$8 + -3 = 5$	
	$13 * 2 = 26$	

Kopfrechnen mittel(11)

$$2 - 0 = 2$$

$$2 * 3 = 6$$

$$6 : 6 = 1$$

$$1 * 3 = 3$$

$$3 - -5 = 8$$

$$8 : 4 = 2$$

$$2 - -10 = 12$$

$$12 + -2 = 10$$

$$10 + 13 = 23$$

$$23 - 12 = 11$$

$$11 + -17 = -6$$

$$-6 : 3 = -2$$

$$-2 : 2 = -1$$

$$-1 - -6 = 5$$

$$5 : 5 = 1$$

$$1 - -11 = 12$$

$$12 + -18 = -6$$

$$-6 - -9 = 3$$

$$3 * 0 = 0$$

$$0 + 5 = 5$$

$$5 + 12 = 17$$

$$17 + 17 = 34$$

$$34 - 13 = 21$$

$$21 + 11 = 32$$

$$32 - 9 = 23$$

$$23 + -11 = 12$$

$$12 - -7 = 19$$

$$19 + 15 = 34$$

$$34 + -12 = 22$$

$$22 + -6 = 16$$

$$16 : 8 = 2$$

$$2 * -4 = -8$$

$$-8 + -4 = -12$$

$$-12 * 1 = -12$$

$$-12 + 13 = 1$$

$$1 + -8 = -7$$

$$-7 + -9 = -16$$

$$-16 : 8 = -2$$

$$12 * -1 = -12$$

$$-12 + -14 = -26$$

$$-26 + -15 = -41$$

$$-41 * -2 = 82$$

$$82 - -16 = 98$$

$$98 : 7 = 14$$

$$14 * 3 = 42$$

$$42 - -13 = 55$$

$$55 - -15 = 70$$

$$70 + -4 = 66$$

$$66 * 2 = 132$$

$$132 - -10 = 142$$

$$142 - -16 = 158$$

$$158 * -3 = -474$$

$$-474 * -3 = 1422$$

$$1422 * 3 = 4266$$

$$4266 - -16 = 4282$$

$$4282 + -6 = 4276$$

$$4276 * 5 = 21380$$

$$21380 + 10 = 21390$$

$$21390 + -12 = 21378$$

$$21378 - 4 = 21374$$

$$21374 + 17 = 21391$$

$$21391 * -1 = -21391$$

$$-21391 * -4 = 85564$$

$$85564 * -2 = -171128$$

$$-171128 + -17 = -171145$$

$$-171145 + 13 = -171132$$

$$-171132 + -10 = -171142$$

$$-171142 + -13 = -171155$$

$$-171155 * -3 = 513465$$

$$513465 * 1 = 513465$$

$$513465 * 2 = 1026930$$

$$1026930 + 20 = 1026950$$

$$1026950 + 4 = 1026954$$

$$1026954 * 5 = 5134770$$

$$5134770 * 3 = 15404310$$

$$15404310 : 5 = 3080862$$

$$10 * 0 = 0$$

$$0 + 15 = 15$$

$$15 + -8 = 7$$

$$7 - -15 = 22$$

$$22 - 2 = 20$$

$$20 + 16 = 36$$

$$36 * 2 = 72$$

$$72 - -3 = 75$$

$$75 * -2 = -150$$

$$-150 : 3 = -50$$

$$-50 * 0 = 0$$

$$0 + -17 = -17$$

$$-17 + -13 = -30$$

$$-30 : 5 = -6$$

$$-6 + -6 = -12$$

$$-12 + 1 = -11$$

$$-11 + -8 = -19$$

$$-19 + 20 = 1$$

$$1 + 8 = 9$$

$$9 * -1 = -9$$

$$-9 : 3 = -3$$

$$-3 + 16 = 13$$

$$13 - -12 = 25$$

$$25 + -13 = 12$$

$$12 * 3 = 36$$

$$36 + -10 = 26$$

$$26 * 5 = 130$$

$$130 - -1 = 131$$

$$131 * 0 = 0$$

$$0 + 11 = 11$$

$$11 + 9 = 20$$

$$20 + 3 = 23$$

$$23 + -7 = 16$$

$$16 - -13 = 29$$

$$29 * -2 = -58$$

$$-58 * 0 = 0$$

$$0 + -2 = -2$$

$$-2 + 5 = 3$$

Kopfrechnen mittel(12)

$$\begin{aligned}14 * -2 &= -28 \\ -28 : 2 &= -14 \\ -14 * -3 &= 42 \\ 42 * -1 &= -42 \\ -42 * 3 &= -126 \\ -126 : 2 &= -63 \\ -63 + -5 &= -68 \\ -68 + 19 &= -49 \\ -49 : 7 &= -7 \\ -7 + 11 &= 4 \\ 4 * 3 &= 12 \\ 12 : 12 &= 1 \\ 1 + 20 &= 21 \\ 21 + -17 &= 4 \\ 4 + -1 &= 3 \\ 3 + -13 &= -10 \\ -10 : 5 &= -2 \\ -2 * 3 &= -6 \\ -6 * -3 &= 18 \\ 18 : 9 &= 2 \\ 2 + 11 &= 13 \\ 13 * 3 &= 39 \\ 39 : 13 &= 3 \\ 3 * 0 &= 0 \\ 0 + 12 &= 12 \\ 12 * 3 &= 36 \\ 36 * -3 &= -108 \\ -108 : 2 &= -54 \\ -54 : 9 &= -6 \\ -6 : 2 &= -3 \\ -3 * 5 &= -15 \\ -15 : 3 &= -5 \\ -5 + -2 &= -7 \\ -7 - -11 &= 4 \\ 4 - -6 &= 10 \\ 10 : 5 &= 2 \\ 2 : 2 &= 1 \\ 1 + -13 &= -12\end{aligned}$$

$$\begin{aligned}17 * 5 &= 85 \\ 85 - -14 &= 99 \\ 99 : 3 &= 33 \\ 33 : 11 &= 3 \\ 3 - -14 &= 17 \\ 17 * 1 &= 17 \\ 17 + 2 &= 19 \\ 19 + 18 &= 37 \\ 37 - -10 &= 47 \\ 47 - -5 &= 52 \\ 52 + 5 &= 57 \\ 57 - -2 &= 59 \\ 59 - 10 &= 49 \\ 49 * 5 &= 245 \\ 245 + 4 &= 249 \\ 249 + -8 &= 241 \\ 241 - 4 &= 237 \\ 237 - 20 &= 217 \\ 217 - -14 &= 231 \\ 231 : 11 &= 21 \\ 21 - 5 &= 16 \\ 16 - 8 &= 8 \\ 8 * 5 &= 40 \\ 40 + 2 &= 42 \\ 42 : 6 &= 7 \\ 7 * 2 &= 14 \\ 14 + 10 &= 24 \\ 24 : 4 &= 6 \\ 6 : 2 &= 3 \\ 3 : 3 &= 1 \\ 1 + 10 &= 11 \\ 11 + 5 &= 16 \\ 16 - 9 &= 7 \\ 7 : 7 &= 1 \\ 1 + 2 &= 3 \\ 3 * 4 &= 12 \\ 12 : 12 &= 1 \\ 1 + 15 &= 16 \\ 20 - 13 &= 7\end{aligned}$$

$$\begin{aligned}7 + -13 &= -6 \\ -6 + 0 &= -6 \\ -6 * -4 &= 24 \\ 24 : 6 &= 4 \\ 4 + -5 &= -1 \\ -1 - -1 &= 0 \\ 0 + -9 &= -9 \\ -9 + 3 &= -6 \\ -6 + 11 &= 5 \\ 5 * 0 &= 0 \\ 0 + -10 &= -10 \\ -10 * 4 &= -40 \\ -40 : 4 &= -10 \\ -10 - -19 &= 9 \\ 9 + -3 &= 6 \\ 6 : 2 &= 3 \\ 3 * 4 &= 12 \\ 12 : 4 &= 3 \\ 3 - 0 &= 3 \\ 3 * -3 &= -9 \\ -9 * 3 &= -27 \\ -27 : 3 &= -9 \\ -9 : 3 &= -3 \\ -3 * 4 &= -12 \\ -12 + 4 &= -8 \\ -8 * 2 &= -16 \\ -16 * 3 &= -48 \\ -48 + -8 &= -56 \\ -56 * 1 &= -56 \\ -56 * -4 &= 224 \\ 224 : 2 &= 112 \\ 112 + 17 &= 129 \\ 129 : 3 &= 43 \\ 43 - 16 &= 27 \\ 27 * 3 &= 81 \\ 81 + -10 &= 71 \\ 71 - 9 &= 62\end{aligned}$$

Kopfrechnen mittel(13)

$19 * 2 = 38$	$11 + 5 = 16$	$21 * 3 = 63$
$38 * 4 = 152$	$16 * -1 = -16$	$63 : 7 = 9$
$152 + -7 = 145$	$-16 : 4 = -4$	$9 - -6 = 15$
$145 * -3 = -435$	$-4 : 2 = -2$	$15 : 3 = 5$
$-435 : 3 = -145$	$-2 : 2 = -1$	$5 + -11 = -6$
$-145 * -4 = 580$	$-1 - -11 = 10$	$-6 * 5 = -30$
$580 - 9 = 571$	$10 : 2 = 5$	$-30 : 2 = -15$
$571 - 13 = 558$	$5 : 5 = 1$	$-15 + 12 = -3$
$558 : 3 = 186$	$1 * 0 = 0$	$-3 * 5 = -15$
$186 - 14 = 172$	$0 + -16 = -16$	$-15 : 5 = -3$
$172 - 6 = 166$	$-16 * 3 = -48$	$-3 : 3 = -1$
$166 * -2 = -332$	$-48 : 4 = -12$	$-1 - -4 = 3$
$-332 * -2 = 664$	$-12 : 6 = -2$	$3 - -14 = 17$
$664 + 18 = 682$	$-2 : 2 = -1$	$17 + 9 = 26$
$682 * 0 = 0$	$-1 + 19 = 18$	$26 - -15 = 41$
$0 + 13 = 13$	$18 + -6 = 12$	$41 * 1 = 41$
$13 : 13 = 1$	$12 : 2 = 6$	$41 * 4 = 164$
$1 + -10 = -9$	$6 : 2 = 3$	$164 + -5 = 159$
$-9 * 2 = -18$	$3 + 20 = 23$	$159 + -15 = 144$
$-18 : 9 = -2$	$23 * 5 = 115$	$144 - -3 = 147$
$-2 * 2 = -4$	$115 - 15 = 100$	$147 : 7 = 21$
$-4 : 2 = -2$	$100 : 10 = 10$	$21 * -3 = -63$
$-2 + -16 = -18$	$10 * -1 = -10$	$-63 * -2 = 126$
$-18 * 4 = -72$	$-10 : 10 = -1$	$126 - 9 = 117$
$-72 + 1 = -71$	$-1 - -5 = 4$	$117 : 3 = 39$
$-71 * 2 = -142$	$4 + 14 = 18$	$39 : 13 = 3$
$-142 * 1 = -142$	$18 * -4 = -72$	$3 * -4 = -12$
$-142 * -2 = 284$	$-72 + -19 = -91$	$-12 * 4 = -48$
$284 * -3 = -852$	$-91 + -1 = -92$	$-48 : 8 = -6$
$-852 + -6 = -858$	$-92 : 2 = -46$	$-6 + -7 = -13$
$-858 + 5 = -853$	$-46 + -19 = -65$	$-13 + 2 = -11$
$-853 + -10 = -863$	$-65 * -1 = 65$	$-11 + 4 = -7$
$-863 + -5 = -868$	$65 + -1 = 64$	$-7 * 2 = -14$
$-868 + -2 = -870$	$64 + -14 = 50$	$-14 * 3 = -42$
$-870 : 3 = -290$	$50 * -4 = -200$	$-42 * 4 = -168$
$-290 + -1 = -291$	$-200 * -3 = 600$	$-168 : 8 = -21$
$-291 + 5 = -286$	$600 + -11 = 589$	$-21 * 0 = 0$
$-286 + -4 = -290$	$589 - -6 = 595$	
	$9 + 12 = 21$	

Kopfrechnen mittel(14)

$$\begin{aligned}20 * 2 &= 40 \\40 * -4 &= -160 \\-160 * 3 &= -480 \\-480 + -15 &= -495 \\-495 : 11 &= -45 \\-45 * 1 &= -45 \\-45 + -18 &= -63 \\-63 : 7 &= -9 \\-9 : 3 &= -3 \\-3 * -3 &= 9 \\9 - -16 &= 25 \\25 * -4 &= -100 \\-100 + -3 &= -103 \\-103 * 4 &= -412 \\-412 + -6 &= -418 \\-418 * -4 &= 1672 \\1672 - -18 &= 1690 \\1690 - -11 &= 1701 \\1701 - 1 &= 1700 \\1700 + -16 &= 1684 \\1684 - 2 &= 1682 \\1682 : 2 &= 841 \\841 + -6 &= 835 \\835 + -10 &= 825 \\825 + 3 &= 828 \\828 : 4 &= 207 \\207 : 9 &= 23 \\23 - 16 &= 7 \\7 - -8 &= 15 \\15 * -2 &= -30 \\-30 + -4 &= -34 \\-34 + 16 &= -18 \\-18 : 3 &= -6 \\-6 * 5 &= -30 \\-30 + 13 &= -17 \\-17 + 0 &= -17 \\-17 * 5 &= -85 \\-85 : 5 &= -17\end{aligned}$$

$$\begin{aligned}3 : 3 &= 1 \\1 * 5 &= 5 \\5 * 5 &= 25 \\25 + 18 &= 43 \\43 + 5 &= 48 \\48 : 4 &= 12 \\12 * -3 &= -36 \\-36 * 0 &= 0 \\0 + -8 &= -8 \\-8 + -5 &= -13 \\-13 + -12 &= -25 \\-25 : 5 &= -5 \\-5 + -10 &= -15 \\-15 + 7 &= -8 \\-8 : 4 &= -2 \\-2 + 7 &= 5 \\5 + -5 &= 0 \\0 + 0 &= 0 \\0 + -3 &= -3 \\-3 + 6 &= 3 \\3 * -4 &= -12 \\-12 * 4 &= -48 \\-48 * 1 &= -48 \\-48 * -2 &= 96 \\96 : 8 &= 12 \\12 + -18 &= -6 \\-6 : 6 &= -1 \\-1 * 1 &= -1 \\-1 * 5 &= -5 \\-5 + 16 &= 11 \\11 : 11 &= 1 \\1 + 3 &= 4 \\4 : 2 &= 2 \\2 + 16 &= 18 \\18 - -2 &= 20 \\20 + -8 &= 12 \\12 - -12 &= 24 \\24 * 4 &= 96 \\16 : 4 &= 4\end{aligned}$$

$$\begin{aligned}4 * -1 &= -4 \\-4 - -4 &= 0 \\0 + -16 &= -16 \\-16 + -9 &= -25 \\-25 : 5 &= -5 \\-5 * -1 &= 5 \\5 * -4 &= -20 \\-20 * 1 &= -20 \\-20 * -4 &= 80 \\80 - 14 &= 66 \\66 * 1 &= 66 \\66 + 0 &= 66 \\66 + -17 &= 49 \\49 - -15 &= 64 \\64 * -2 &= -128 \\-128 : 4 &= -32 \\-32 : 2 &= -16 \\-16 * 3 &= -48 \\-48 * 3 &= -144 \\-144 * 2 &= -288 \\-288 : 3 &= -96 \\-96 + -4 &= -100 \\-100 + 6 &= -94 \\-94 + 17 &= -77 \\-77 * -2 &= 154 \\154 - 8 &= 146 \\146 - 9 &= 137 \\137 - 9 &= 128 \\128 - -5 &= 133 \\133 - 13 &= 120 \\120 : 10 &= 12 \\12 - -11 &= 23 \\23 + -9 &= 14 \\14 + 1 &= 15 \\15 * 4 &= 60 \\60 : 2 &= 30 \\30 + 11 &= 41\end{aligned}$$

Kopfrechnen mittel(15)

$$\begin{aligned}5 * -4 &= -20 \\ -20 * -2 &= 40 \\ 40 * -2 &= -80 \\ -80 * 5 &= -400 \\ -400 + -13 &= -413 \\ -413 : 7 &= -59 \\ -59 + 1 &= -58 \\ -58 + -14 &= -72 \\ -72 * 4 &= -288 \\ -288 * 2 &= -576 \\ -576 + 15 &= -561 \\ -561 : 3 &= -187 \\ -187 : 11 &= -17 \\ -17 * -4 &= 68 \\ 68 : 4 &= 17 \\ 17 * -2 &= -34 \\ -34 : 2 &= -17 \\ -17 + 0 &= -17 \\ -17 + 8 &= -9 \\ -9 + 7 &= -2 \\ -2 * 2 &= -4 \\ -4 * 1 &= -4 \\ -4 * 1 &= -4 \\ -4 + 10 &= 6 \\ 6 + 7 &= 13 \\ 13 * 5 &= 65 \\ 65 * 2 &= 130 \\ 130 * 0 &= 0 \\ 0 + 9 &= 9 \\ 9 * -2 &= -18 \\ -18 : 9 &= -2 \\ -2 + -3 &= -5 \\ -5 + -3 &= -8 \\ -8 * -1 &= 8 \\ 8 + 16 &= 24 \\ 24 * 3 &= 72 \\ 72 * -2 &= -144 \\ -144 : 6 &= -24\end{aligned}$$

$$\begin{aligned}2 + 3 &= 5 \\ 5 - -16 &= 21 \\ 21 - -4 &= 25 \\ 25 : 5 &= 5 \\ 5 - -15 &= 20 \\ 20 : 4 &= 5 \\ 5 : 5 &= 1 \\ 1 - -4 &= 5 \\ 5 + -17 &= -12 \\ -12 * 3 &= -36 \\ -36 * 0 &= 0 \\ 0 + 16 &= 16 \\ 16 * 0 &= 0 \\ 0 + -4 &= -4 \\ -4 : 2 &= -2 \\ -2 : 2 &= -1 \\ -1 * 1 &= -1 \\ -1 + 13 &= 12 \\ 12 + 18 &= 30 \\ 30 - 4 &= 26 \\ 26 + -14 &= 12 \\ 12 + -11 &= 1 \\ 1 + -19 &= -18 \\ -18 + 3 &= -15 \\ -15 * -2 &= 30 \\ 30 : 3 &= 10 \\ 10 + -3 &= 7 \\ 7 : 7 &= 1 \\ 1 * -3 &= -3 \\ -3 : 3 &= -1 \\ -1 + 15 &= 14 \\ 14 - -15 &= 29 \\ 29 - -4 &= 33 \\ 33 : 11 &= 3 \\ 3 : 3 &= 1 \\ 1 + 15 &= 16 \\ 16 : 2 &= 8 \\ 8 : 2 &= 4 \\ 2 * -2 &= -4\end{aligned}$$

$$\begin{aligned}-4 + -7 &= -11 \\ -11 + -4 &= -15 \\ -15 : 5 &= -3 \\ -3 + -10 &= -13 \\ -13 * 4 &= -52 \\ -52 : 2 &= -26 \\ -26 : 2 &= -13 \\ -13 + -14 &= -27 \\ -27 : 9 &= -3 \\ -3 + -16 &= -19 \\ -19 * 3 &= -57 \\ -57 : 3 &= -19 \\ -19 * 2 &= -38 \\ -38 * 3 &= -114 \\ -114 * 3 &= -342 \\ -342 : 3 &= -114 \\ -114 * 5 &= -570 \\ -570 + 8 &= -562 \\ -562 + -11 &= -573 \\ -573 + 4 &= -569 \\ -569 + -16 &= -585 \\ -585 * 2 &= -1170 \\ -1170 * 2 &= -2340 \\ -2340 + 10 &= -2330 \\ -2330 * 2 &= -4660 \\ -4660 * -1 &= 4660 \\ 4660 : 4 &= 1165 \\ 1165 - 1 &= 1164 \\ 1164 : 12 &= 97 \\ 97 - -1 &= 98 \\ 98 + 2 &= 100 \\ 100 + -3 &= 97 \\ 97 * 1 &= 97 \\ 97 * -4 &= -388 \\ -388 : 4 &= -97 \\ -97 * 3 &= -291 \\ -291 + 13 &= -278\end{aligned}$$

Kopfrechnen mittel(16)

$$\begin{aligned}5 : 5 &= 1 \\1 + -3 &= -2 \\-2 : 2 &= -1 \\-1 + 12 &= 11 \\11 + 11 &= 22 \\22 - -15 &= 37 \\37 - -6 &= 43 \\43 * 3 &= 129 \\129 - 15 &= 114 \\114 + -17 &= 97 \\97 + -9 &= 88 \\88 + 16 &= 104 \\104 + 17 &= 121 \\121 * 4 &= 484 \\484 : 2 &= 242 \\242 + 7 &= 249 \\249 : 3 &= 83 \\83 + -13 &= 70 \\70 : 10 &= 7 \\7 * -4 &= -28 \\-28 + 6 &= -22 \\-22 * 4 &= -88 \\-88 : 4 &= -22 \\-22 * -4 &= 88 \\88 : 2 &= 44 \\44 * 1 &= 44 \\44 + 10 &= 54 \\54 - 0 &= 54 \\54 : 2 &= 27 \\27 + -1 &= 26 \\26 * 4 &= 104 \\104 * -1 &= -104 \\-104 * 2 &= -208 \\-208 + 4 &= -204 \\-204 : 4 &= -51 \\-51 + 6 &= -45 \\-45 + 3 &= -42 \\-42 + 15 &= -27\end{aligned}$$

$$\begin{aligned}13 * -2 &= -26 \\-26 + 7 &= -19 \\-19 * 1 &= -19 \\-19 + -6 &= -25 \\-25 : 5 &= -5 \\-5 * 3 &= -15 \\-15 + 17 &= 2 \\2 * 0 &= 0 \\0 + 1 &= 1 \\1 * -4 &= -4 \\-4 * -4 &= 16 \\16 - 6 &= 10 \\10 : 2 &= 5 \\5 : 5 &= 1 \\1 + 14 &= 15 \\15 + 18 &= 33 \\33 * 2 &= 66 \\66 + 7 &= 73 \\73 - 17 &= 56 \\56 + 11 &= 67 \\67 * -4 &= -268 \\-268 * -2 &= 536 \\536 : 8 &= 67 \\67 * 3 &= 201 \\201 - -5 &= 206 \\206 * 5 &= 1030 \\1030 - -9 &= 1039 \\1039 + 16 &= 1055 \\1055 - -15 &= 1070 \\1070 * -3 &= -3210 \\-3210 + 11 &= -3199 \\-3199 * -4 &= 12796 \\12796 - 13 &= 12783 \\12783 * 1 &= 12783 \\12783 * 5 &= 63915 \\63915 + 17 &= 63932 \\63932 * 4 &= 255728 \\255728 : 8 &= 31966 \\5 * -3 &= -15\end{aligned}$$

$$\begin{aligned}-15 * 0 &= 0 \\0 + 12 &= 12 \\12 : 6 &= 2 \\2 * 4 &= 8 \\8 * 0 &= 0 \\0 + -3 &= -3 \\-3 : 3 &= -1 \\-1 + -17 &= -18 \\-18 * 2 &= -36 \\-36 * -1 &= 36 \\36 : 2 &= 18 \\18 : 3 &= 6 \\6 - -9 &= 15 \\15 : 5 &= 3 \\3 * 3 &= 9 \\9 : 3 &= 3 \\3 + 15 &= 18 \\18 - 12 &= 6 \\6 - 2 &= 4 \\4 + 2 &= 6 \\6 : 2 &= 3 \\3 - -14 &= 17 \\17 * -1 &= -17 \\-17 + -15 &= -32 \\-32 * -3 &= 96 \\96 - -1 &= 97 \\97 * 4 &= 388 \\388 * -3 &= -1164 \\-1164 + -3 &= -1167 \\-1167 * 4 &= -4668 \\-4668 + 19 &= -4649 \\-4649 + 16 &= -4633 \\-4633 + -7 &= -4640 \\-4640 : 8 &= -580 \\-580 : 10 &= -58 \\-58 * 4 &= -232 \\-232 : 8 &= -29\end{aligned}$$

Kopfrechnen mittel(17)

$$\begin{aligned}10 * 3 &= 30 \\30 * -2 &= -60 \\-60 + -13 &= -73 \\-73 + 10 &= -63 \\-63 + -19 &= -82 \\-82 : 2 &= -41 \\-41 + 0 &= -41 \\-41 * 3 &= -123 \\-123 : 3 &= -41 \\-41 + -15 &= -56 \\-56 + -5 &= -61 \\-61 + 9 &= -52 \\-52 + 19 &= -33 \\-33 : 3 &= -11 \\-11 + 1 &= -10 \\-10 * 0 &= 0 \\0 + 6 &= 6 \\6 : 3 &= 2 \\2 * -4 &= -8 \\-8 : 4 &= -2 \\-2 + 12 &= 10 \\10 * 2 &= 20 \\20 - 19 &= 1 \\1 + 1 &= 2 \\2 + -9 &= -7 \\-7 * -1 &= 7 \\7 + -8 &= -1 \\-1 - -4 &= 3 \\3 + -18 &= -15 \\-15 - -15 &= 0 \\0 + -2 &= -2 \\-2 - -8 &= 6 \\6 + -3 &= 3 \\3 + -12 &= -9 \\-9 * 1 &= -9 \\-9 * -4 &= 36 \\36 - 13 &= 23 \\23 * -4 &= -92\end{aligned}$$

$$\begin{aligned}7 - -10 &= 17 \\17 - 1 &= 16 \\16 + -10 &= 6 \\6 + -6 &= 0 \\0 + 14 &= 14 \\14 : 2 &= 7 \\7 - -9 &= 16 \\16 : 4 &= 4 \\4 * 1 &= 4 \\4 * 1 &= 4 \\4 + -15 &= -11 \\-11 + 8 &= -3 \\-3 - -6 &= 3 \\3 : 3 &= 1 \\1 * 2 &= 2 \\2 + 0 &= 2 \\2 * 5 &= 10 \\10 : 5 &= 2 \\2 + -7 &= -5 \\-5 : 5 &= -1 \\-1 + -7 &= -8 \\-8 - -14 &= 6 \\6 + -10 &= -4 \\-4 : 4 &= -1 \\-1 * -2 &= 2 \\2 - -2 &= 4 \\4 * 1 &= 4 \\4 : 4 &= 1 \\1 + -7 &= -6 \\-6 + 14 &= 8 \\8 : 8 &= 1 \\1 * 2 &= 2 \\2 - -16 &= 18 \\18 - 9 &= 9 \\9 + 5 &= 14 \\14 - -15 &= 29 \\29 - 5 &= 24 \\24 + -6 &= 18 \\10 * 1 &= 10\end{aligned}$$

$$\begin{aligned}10 - -11 &= 21 \\21 * 0 &= 0 \\0 + 8 &= 8 \\8 * 3 &= 24 \\24 * -3 &= -72 \\-72 : 9 &= -8 \\-8 + 8 &= 0 \\0 + 20 &= 20 \\20 * 3 &= 60 \\60 - 0 &= 60 \\60 - -19 &= 79 \\79 + -18 &= 61 \\61 - -12 &= 73 \\73 + 8 &= 81 \\81 + -17 &= 64 \\64 * 1 &= 64 \\64 : 2 &= 32 \\32 * -3 &= -96 \\-96 * -2 &= 192 \\192 + 18 &= 210 \\210 + -17 &= 193 \\193 * -3 &= -579 \\-579 + 9 &= -570 \\-570 * -1 &= 570 \\570 * -4 &= -2280 \\-2280 + -5 &= -2285 \\-2285 + 8 &= -2277 \\-2277 + 14 &= -2263 \\-2263 * 2 &= -4526 \\-4526 * -3 &= 13578 \\13578 - -3 &= 13581 \\13581 + -16 &= 13565 \\13565 + -13 &= 13552 \\13552 : 7 &= 1936 \\1936 : 2 &= 968 \\968 + -19 &= 949 \\949 + 10 &= 959\end{aligned}$$

Kopfrechnen mittel(18)

$1 * 1 = 1$	$13 - 13 = 0$	$37 * 0 = 0$
$1 - -17 = 18$	$0 + 3 = 3$	$0 + 16 = 16$
$18 : 9 = 2$	$3 + 20 = 23$	$16 + 4 = 20$
$2 : 2 = 1$	$23 - -10 = 33$	$20 : 4 = 5$
$1 * -1 = -1$	$33 : 11 = 3$	$5 - -8 = 13$
$-1 - -1 = 0$	$3 * -1 = -3$	$13 + -4 = 9$
$0 + -8 = -8$	$-3 : 3 = -1$	$9 : 3 = 3$
$-8 + 1 = -7$	$-1 + -18 = -19$	$3 * -1 = -3$
$-7 * -3 = 21$	$-19 * 4 = -76$	$-3 * -1 = 3$
$21 + -5 = 16$	$-76 + 8 = -68$	$3 * 5 = 15$
$16 + 7 = 23$	$-68 * 3 = -204$	$15 + 13 = 28$
$23 - 17 = 6$	$-204 : 3 = -68$	$28 + 12 = 40$
$6 * -3 = -18$	$-68 * 2 = -136$	$40 * 4 = 160$
$-18 * -3 = 54$	$-136 : 4 = -34$	$160 * 2 = 320$
$54 * 2 = 108$	$-34 * 1 = -34$	$320 + 9 = 329$
$108 * 1 = 108$	$-34 * -2 = 68$	$329 - 7 = 322$
$108 + -6 = 102$	$68 * 3 = 204$	$322 - -10 = 332$
$102 - 2 = 100$	$204 * -3 = -612$	$332 : 2 = 166$
$100 : 10 = 10$	$-612 * 1 = -612$	$166 + 9 = 175$
$10 * -4 = -40$	$-612 : 4 = -153$	$175 - -6 = 181$
$-40 + 3 = -37$	$-153 : 9 = -17$	$181 - -4 = 185$
$-37 * 3 = -111$	$-17 + -9 = -26$	$185 + -11 = 174$
$-111 * -4 = 444$	$-26 * -3 = 78$	$174 * -3 = -522$
$444 - -3 = 447$	$78 + -13 = 65$	$-522 * 1 = -522$
$447 * -4 = -1788$	$65 - 1 = 64$	$-522 + -19 = -541$
$-1788 : 12 = -149$	$64 + -2 = 62$	$-541 * 4 = -2164$
$-149 + 16 = -133$	$62 + 9 = 71$	$-2164 + -15 = -2179$
$-133 : 7 = -19$	$71 - -19 = 90$	$-2179 + -2 = -2181$
$-19 + 16 = -3$	$90 * -1 = -90$	$-2181 + -6 = -2187$
$-3 - -14 = 11$	$-90 * -2 = 180$	$-2187 + 13 = -2174$
$11 : 11 = 1$	$180 * -3 = -540$	$-2174 : 2 = -1087$
$1 + 3 = 4$	$-540 * 3 = -1620$	$-1087 * -3 = 3261$
$4 - -12 = 16$	$-1620 : 10 = -162$	$3261 * -2 = -6522$
$16 * 5 = 80$	$-162 * 0 = 0$	$-6522 : 6 = -1087$
$80 : 8 = 10$	$0 + 15 = 15$	$-1087 + 17 = -1070$
$10 * 0 = 0$	$15 - 11 = 4$	$-1070 * 0 = 0$
$0 + 1 = 1$	$4 * 4 = 16$	$0 + 15 = 15$
$1 + 20 = 21$	$16 : 2 = 8$	
	$19 + 18 = 37$	

Kopfrechnen mittel(19)

$18 : 2 = 9$	$6 + -16 = -10$	$1 - -19 = 20$
$9 : 9 = 1$	$-10 + -15 = -25$	$20 : 4 = 5$
$1 * -3 = -3$	$-25 * -1 = 25$	$5 * -1 = -5$
$-3 : 3 = -1$	$25 + 4 = 29$	$-5 + -3 = -8$
$-1 * 1 = -1$	$29 + -16 = 13$	$-8 : 8 = -1$
$-1 + -4 = -5$	$13 : 13 = 1$	$-1 - -2 = 1$
$-5 * -1 = 5$	$1 + -13 = -12$	$1 * -3 = -3$
$5 + -17 = -12$	$-12 * 3 = -36$	$-3 * 4 = -12$
$-12 * -1 = 12$	$-36 * -3 = 108$	$-12 * 3 = -36$
$12 : 3 = 4$	$108 - -3 = 111$	$-36 * 4 = -144$
$4 - -19 = 23$	$111 - 1 = 110$	$-144 * 2 = -288$
$23 * -1 = -23$	$110 + 13 = 123$	$-288 : 4 = -72$
$-23 + -16 = -39$	$123 * 3 = 369$	$-72 + -10 = -82$
$-39 : 3 = -13$	$369 + -11 = 358$	$-82 : 2 = -41$
$-13 + -18 = -31$	$358 + 10 = 368$	$-41 + -17 = -58$
$-31 + 17 = -14$	$368 - 17 = 351$	$-58 * 0 = 0$
$-14 : 7 = -2$	$351 : 3 = 117$	$0 + 17 = 17$
$-2 + 9 = 7$	$117 * -4 = -468$	$17 - 2 = 15$
$7 : 7 = 1$	$-468 + -18 = -486$	$15 + -6 = 9$
$1 - -12 = 13$	$-486 : 9 = -54$	$9 : 9 = 1$
$13 : 13 = 1$	$-54 * 4 = -216$	$1 * -1 = -1$
$1 + 3 = 4$	$-216 + -15 = -231$	$-1 * 0 = 0$
$4 : 2 = 2$	$-231 : 3 = -77$	$0 + 5 = 5$
$2 * 0 = 0$	$-77 + -8 = -85$	$5 : 5 = 1$
$0 + 19 = 19$	$-85 * 4 = -340$	$1 - -7 = 8$
$19 - -10 = 29$	$-340 : 2 = -170$	$8 - 7 = 1$
$29 - 17 = 12$	$-170 + -10 = -180$	$1 + -6 = -5$
$12 + 18 = 30$	$-180 * 5 = -900$	$-5 * -2 = 10$
$30 : 10 = 3$	$-900 : 5 = -180$	$10 - -5 = 15$
$3 * -3 = -9$	$-180 * 1 = -180$	$15 * 2 = 30$
$-9 * -2 = 18$	$-180 + 18 = -162$	$30 + -18 = 12$
$18 - -17 = 35$	$-162 * 1 = -162$	$12 : 6 = 2$
$35 + 5 = 40$	$-162 + -1 = -163$	$2 + -8 = -6$
$40 + 0 = 40$	$-163 * -1 = 163$	$-6 * 0 = 0$
$40 : 10 = 4$	$163 - 16 = 147$	$0 + -4 = -4$
$4 * -1 = -4$	$147 + -18 = 129$	$-4 * -3 = 12$
$-4 * -1 = 4$	$129 * 0 = 0$	$12 : 2 = 6$
$4 : 4 = 1$	$0 + -4 = -4$	
	$6 - 5 = 1$	

Kopfrechnen mittel(20)

$11 + 14 = 25$	$3 : 3 = 1$	$7 * 0 = 0$
$25 * -1 = -25$	$1 + 19 = 20$	$0 + -13 = -13$
$-25 * 0 = 0$	$20 - 3 = 17$	$-13 : 13 = -1$
$0 + -14 = -14$	$17 * -1 = -17$	$-1 * 1 = -1$
$-14 + -11 = -25$	$-17 + -1 = -18$	$-1 * -1 = 1$
$-25 + 2 = -23$	$-18 : 9 = -2$	$1 - -13 = 14$
$-23 * -1 = 23$	$-2 + 2 = 0$	$14 - -4 = 18$
$23 + 20 = 43$	$0 + 13 = 13$	$18 - 9 = 9$
$43 - -6 = 49$	$13 * 2 = 26$	$9 + -3 = 6$
$49 + -11 = 38$	$26 * 5 = 130$	$6 * -4 = -24$
$38 + 13 = 51$	$130 - 4 = 126$	$-24 + -13 = -37$
$51 - 0 = 51$	$126 * -1 = -126$	$-37 * 5 = -185$
$51 * -2 = -102$	$-126 : 3 = -42$	$-185 + 11 = -174$
$-102 + 6 = -96$	$-42 + 18 = -24$	$-174 + 9 = -165$
$-96 * -3 = 288$	$-24 : 4 = -6$	$-165 * -1 = 165$
$288 : 2 = 144$	$-6 : 2 = -3$	$165 : 3 = 55$
$144 * 2 = 288$	$-3 + -3 = -6$	$55 - -15 = 70$
$288 * -4 = -1152$	$-6 * 4 = -24$	$70 : 7 = 10$
$-1152 + 1 = -1151$	$-24 * 0 = 0$	$10 + -19 = -9$
$-1151 * 3 = -3453$	$0 + 4 = 4$	$-9 * -4 = 36$
$-3453 + 2 = -3451$	$4 : 4 = 1$	$36 * -1 = -36$
$-3451 + 10 = -3441$	$1 + 7 = 8$	$-36 * 1 = -36$
$-3441 * -3 = 10323$	$8 : 2 = 4$	$-36 : 2 = -18$
$10323 + 12 = 10335$	$4 + -10 = -6$	$-18 * -4 = 72$
$10335 + 15 = 10350$	$-6 : 2 = -3$	$72 : 12 = 6$
$10350 * 0 = 0$	$-3 + -4 = -7$	$6 - -17 = 23$
$0 + 0 = 0$	$-7 + -2 = -9$	$23 + -18 = 5$
$0 + -8 = -8$	$-9 * 1 = -9$	$5 * -4 = -20$
$-8 : 8 = -1$	$-9 + 5 = -4$	$-20 + -8 = -28$
$-1 + -18 = -19$	$-4 + -6 = -10$	$-28 * -3 = 84$
$-19 * -4 = 76$	$-10 + -1 = -11$	$84 : 7 = 12$
$76 + 18 = 94$	$-11 + 9 = -2$	$12 : 2 = 6$
$94 * 2 = 188$	$-2 + -12 = -14$	$6 * -2 = -12$
$188 * 1 = 188$	$-14 + -4 = -18$	$-12 : 6 = -2$
$188 - -3 = 191$	$-18 + -2 = -20$	$-2 : 2 = -1$
$191 + -13 = 178$	$-20 * 4 = -80$	$-1 + 7 = 6$
$178 + 13 = 191$	$-80 + -1 = -81$	$6 - -9 = 15$
$191 + 0 = 191$	$-81 * 2 = -162$	
	$1 - -6 = 7$	

Kopfrechnen mittel(21)

$14 : 7 = 2$	$15 : 5 = 3$	$6 + -19 = -13$
$2 - -3 = 5$	$3 * -3 = -9$	$-13 + 0 = -13$
$5 + -2 = 3$	$-9 : 9 = -1$	$-13 + -19 = -32$
$3 + 18 = 21$	$-1 + 5 = 4$	$-32 + 1 = -31$
$21 * 3 = 63$	$4 * 1 = 4$	$-31 + 1 = -30$
$63 - 18 = 45$	$4 * 3 = 12$	$-30 : 5 = -6$
$45 + -11 = 34$	$12 + -19 = -7$	$-6 * -1 = 6$
$34 : 2 = 17$	$-7 * -2 = 14$	$6 - -18 = 24$
$17 + -12 = 5$	$14 - -7 = 21$	$24 * 1 = 24$
$5 - 2 = 3$	$21 : 7 = 3$	$24 * -4 = -96$
$3 + -9 = -6$	$3 * 1 = 3$	$-96 * 3 = -288$
$-6 - -18 = 12$	$3 - -7 = 10$	$-288 : 6 = -48$
$12 - -1 = 13$	$10 + -3 = 7$	$-48 + -4 = -52$
$13 * 5 = 65$	$7 : 7 = 1$	$-52 * 0 = 0$
$65 + 14 = 79$	$1 + 6 = 7$	$0 + 8 = 8$
$79 + -19 = 60$	$7 : 7 = 1$	$8 * 3 = 24$
$60 + -17 = 43$	$1 * -4 = -4$	$24 * -3 = -72$
$43 - 20 = 23$	$-4 - -14 = 10$	$-72 + 0 = -72$
$23 + -6 = 17$	$10 * 3 = 30$	$-72 * 2 = -144$
$17 + 4 = 21$	$30 + 19 = 49$	$-144 * 5 = -720$
$21 + 6 = 27$	$49 + 7 = 56$	$-720 * -4 = 2880$
$27 : 3 = 9$	$56 + -4 = 52$	$2880 - -18 = 2898$
$9 + 9 = 18$	$52 - 20 = 32$	$2898 * 1 = 2898$
$18 - -7 = 25$	$32 : 8 = 4$	$2898 - 9 = 2889$
$25 + -9 = 16$	$4 * -4 = -16$	$2889 + -11 = 2878$
$16 + -9 = 7$	$-16 : 4 = -4$	$2878 : 2 = 1439$
$7 * -3 = -21$	$-4 * 0 = 0$	$1439 * -4 = -5756$
$-21 + 5 = -16$	$0 + 1 = 1$	$-5756 : 2 = -2878$
$-16 * 0 = 0$	$1 * 2 = 2$	$-2878 : 2 = -1439$
$0 + 0 = 0$	$2 * 5 = 10$	$-1439 * -4 = 5756$
$0 + -6 = -6$	$10 : 2 = 5$	$5756 : 2 = 2878$
$-6 + 11 = 5$	$5 : 5 = 1$	$2878 : 2 = 1439$
$5 + 12 = 17$	$1 * 5 = 5$	$1439 + -19 = 1420$
$17 + -14 = 3$	$5 : 5 = 1$	$1420 - 1 = 1419$
$3 * 3 = 9$	$1 + -7 = -6$	$1419 + 4 = 1423$
$9 - -9 = 18$	$-6 - -8 = 2$	$1423 - 20 = 1403$
$18 - 17 = 1$	$2 * 1 = 2$	$1403 - 9 = 1394$
$1 * 3 = 3$	$2 + -17 = -15$	
	$12 : 2 = 6$	

Kopfrechnen mittel(22)

$11 * -2 = -22$	$9 + -5 = 4$	$80 + 18 = 98$
$-22 + 4 = -18$	$4 * 3 = 12$	$98 + -16 = 82$
$-18 * -2 = 36$	$12 - -3 = 15$	$82 + -4 = 78$
$36 : 3 = 12$	$15 - -17 = 32$	$78 * -1 = -78$
$12 - -4 = 16$	$32 : 2 = 16$	$-78 : 3 = -26$
$16 + -12 = 4$	$16 : 8 = 2$	$-26 * -2 = 52$
$4 + 18 = 22$	$2 + -17 = -15$	$52 - -14 = 66$
$22 * -1 = -22$	$-15 : 3 = -5$	$66 * -1 = -66$
$-22 + -18 = -40$	$-5 + 17 = 12$	$-66 + -15 = -81$
$-40 : 4 = -10$	$12 : 12 = 1$	$-81 * -4 = 324$
$-10 + 1 = -9$	$1 + 18 = 19$	$324 + -2 = 322$
$-9 : 9 = -1$	$19 * 3 = 57$	$322 * 1 = 322$
$-1 + -5 = -6$	$57 - 10 = 47$	$322 * -2 = -644$
$-6 + 6 = 0$	$47 + 13 = 60$	$-644 : 7 = -92$
$0 + -7 = -7$	$60 * -2 = -120$	$-92 * -1 = 92$
$-7 - -19 = 12$	$-120 + 12 = -108$	$92 * 4 = 368$
$12 : 3 = 4$	$-108 : 3 = -36$	$368 * 1 = 368$
$4 * 5 = 20$	$-36 * -1 = 36$	$368 * -1 = -368$
$20 + -3 = 17$	$36 : 9 = 4$	$-368 + -18 = -386$
$17 * -3 = -51$	$4 * 4 = 16$	$-386 : 2 = -193$
$-51 + 14 = -37$	$16 - 2 = 14$	$-193 * 3 = -579$
$-37 * -3 = 111$	$14 + 20 = 34$	$-579 * 5 = -2895$
$111 * 0 = 0$	$34 - 10 = 24$	$-2895 : 5 = -579$
$0 + -11 = -11$	$24 + -13 = 11$	$-579 : 3 = -193$
$-11 * -4 = 44$	$11 : 11 = 1$	$-193 + -1 = -194$
$44 : 4 = 11$	$1 * -1 = -1$	$-194 + 9 = -185$
$11 + 0 = 11$	$-1 - -13 = 12$	$-185 * 1 = -185$
$11 - 6 = 5$	$12 : 3 = 4$	$-185 * -2 = 370$
$5 - 1 = 4$	$4 + -8 = -4$	$370 + 6 = 376$
$4 + -16 = -12$	$-4 : 4 = -1$	$376 - 5 = 371$
$-12 + 3 = -9$	$-1 - -4 = 3$	$371 - 8 = 363$
$-9 - -17 = 8$	$3 + 9 = 12$	$363 - 11 = 352$
$8 : 2 = 4$	$12 : 12 = 1$	$352 - 15 = 337$
$4 + -3 = 1$	$1 * 4 = 4$	$337 * -3 = -1011$
$1 - -18 = 19$	$4 : 4 = 1$	$-1011 : 3 = -337$
$19 * 1 = 19$	$1 - -1 = 2$	$-337 + -18 = -355$
$19 * 5 = 95$	$2 : 2 = 1$	$-355 * 4 = -1420$
$95 : 5 = 19$	$1 + -4 = -3$	
	$16 * 5 = 80$	

Kopfrechnen mittel(23)

$4 : 4 = 1$	$7 + -13 = -6$	$9 * -3 = -27$
$1 + 1 = 2$	$-6 * 1 = -6$	$-27 * 2 = -54$
$2 * 0 = 0$	$-6 : 3 = -2$	$-54 + 18 = -36$
$0 + 15 = 15$	$-2 + 19 = 17$	$-36 * 5 = -180$
$15 - -17 = 32$	$17 - -12 = 29$	$-180 * 0 = 0$
$32 - 7 = 25$	$29 * 2 = 58$	$0 + 16 = 16$
$25 - 20 = 5$	$58 - 4 = 54$	$16 * 2 = 32$
$5 * -1 = -5$	$54 * -3 = -162$	$32 + 2 = 34$
$-5 * 5 = -25$	$-162 : 3 = -54$	$34 + -12 = 22$
$-25 + -9 = -34$	$-54 + 19 = -35$	$22 : 2 = 11$
$-34 * 1 = -34$	$-35 : 5 = -7$	$11 - 9 = 2$
$-34 + 17 = -17$	$-7 * 1 = -7$	$2 * -1 = -2$
$-17 * 3 = -51$	$-7 + -2 = -9$	$-2 * 0 = 0$
$-51 + 0 = -51$	$-9 : 3 = -3$	$0 + 19 = 19$
$-51 + -9 = -60$	$-3 + -17 = -20$	$19 + 11 = 30$
$-60 + 18 = -42$	$-20 : 2 = -10$	$30 * 4 = 120$
$-42 : 3 = -14$	$-10 + 8 = -2$	$120 * -3 = -360$
$-14 : 2 = -7$	$-2 * 0 = 0$	$-360 : 5 = -72$
$-7 * -3 = 21$	$0 + -15 = -15$	$-72 : 4 = -18$
$21 - 13 = 8$	$-15 - -19 = 4$	$-18 + 14 = -4$
$8 + -3 = 5$	$4 - -4 = 8$	$-4 * 2 = -8$
$5 + 3 = 8$	$8 - -18 = 26$	$-8 : 2 = -4$
$8 : 2 = 4$	$26 - -1 = 27$	$-4 - -4 = 0$
$4 : 2 = 2$	$27 * 5 = 135$	$0 + 8 = 8$
$2 * -2 = -4$	$135 - 15 = 120$	$8 * 0 = 0$
$-4 : 4 = -1$	$120 * 0 = 0$	$0 + 19 = 19$
$-1 + -4 = -5$	$0 + 9 = 9$	$19 + 5 = 24$
$-5 + 10 = 5$	$9 * 5 = 45$	$24 - -8 = 32$
$5 : 5 = 1$	$45 - -14 = 59$	$32 * -3 = -96$
$1 * -2 = -2$	$59 - 9 = 50$	$-96 : 3 = -32$
$-2 + 8 = 6$	$50 : 10 = 5$	$-32 + -15 = -47$
$6 + -3 = 3$	$5 : 5 = 1$	$-47 + -10 = -57$
$3 + -16 = -13$	$1 - -14 = 15$	$-57 * -1 = 57$
$-13 * 1 = -13$	$15 : 3 = 5$	$57 - 8 = 49$
$-13 + 9 = -4$	$5 * -1 = -5$	$49 + 6 = 55$
$-4 : 2 = -2$	$-5 + -14 = -19$	$55 : 5 = 11$
$-2 + 10 = 8$	$-19 * 2 = -38$	$11 : 11 = 1$
$8 - -13 = 21$	$-38 + -5 = -43$	
	$9 * 1 = 9$	

Kopfrechnen mittel(24)

$16 + 12 = 28$	$9 : 9 = 1$	$1 - -16 = 17$
$28 + 10 = 38$	$1 - -1 = 2$	$17 * 1 = 17$
$38 + 18 = 56$	$2 : 2 = 1$	$17 - 15 = 2$
$56 * -3 = -168$	$1 + 8 = 9$	$2 - 1 = 1$
$-168 + 4 = -164$	$9 - 0 = 9$	$1 * -1 = -1$
$-164 + -19 = -183$	$9 - 7 = 2$	$-1 * 2 = -2$
$-183 + 5 = -178$	$2 - -8 = 10$	$-2 * -2 = 4$
$-178 + -2 = -180$	$10 - -4 = 14$	$4 * -2 = -8$
$-180 + 5 = -175$	$14 + 9 = 23$	$-8 : 4 = -2$
$-175 : 7 = -25$	$23 - 8 = 15$	$-2 * -1 = 2$
$-25 : 5 = -5$	$15 * -3 = -45$	$2 : 2 = 1$
$-5 + -12 = -17$	$-45 + -14 = -59$	$1 - -4 = 5$
$-17 + 13 = -4$	$-59 * 2 = -118$	$5 * -2 = -10$
$-4 * -4 = 16$	$-118 + 2 = -116$	$-10 : 2 = -5$
$16 * -3 = -48$	$-116 + -18 = -134$	$-5 * -1 = 5$
$-48 + 8 = -40$	$-134 : 2 = -67$	$5 * 4 = 20$
$-40 : 10 = -4$	$-67 * -4 = 268$	$20 : 2 = 10$
$-4 + 12 = 8$	$268 * 1 = 268$	$10 + 14 = 24$
$8 : 4 = 2$	$268 - 14 = 254$	$24 - 3 = 21$
$2 * 0 = 0$	$254 - -8 = 262$	$21 * 2 = 42$
$0 + 7 = 7$	$262 * 2 = 524$	$42 * 2 = 84$
$7 * 2 = 14$	$524 - -19 = 543$	$84 + -8 = 76$
$14 : 2 = 7$	$543 - -10 = 553$	$76 + 2 = 78$
$7 - -14 = 21$	$553 - 19 = 534$	$78 + 17 = 95$
$21 - 20 = 1$	$534 - 6 = 528$	$95 + -13 = 82$
$1 * 5 = 5$	$528 + -8 = 520$	$82 * 2 = 164$
$5 + 8 = 13$	$520 + -13 = 507$	$164 - -12 = 176$
$13 + -13 = 0$	$507 * -4 = -2028$	$176 : 8 = 22$
$0 + -18 = -18$	$-2028 * 1 = -2028$	$22 + 1 = 23$
$-18 + -13 = -31$	$-2028 : 2 = -1014$	$23 * -3 = -69$
$-31 * 1 = -31$	$-1014 : 6 = -169$	$-69 * -2 = 138$
$-31 * 4 = -124$	$-169 + 12 = -157$	$138 * 3 = 414$
$-124 * -2 = 248$	$-157 * -4 = 628$	$414 - 1 = 413$
$248 : 8 = 31$	$628 + 18 = 646$	$413 - 13 = 400$
$31 + -17 = 14$	$646 * 3 = 1938$	$400 + -9 = 391$
$14 : 2 = 7$	$1938 + 17 = 1955$	$391 - 1 = 390$
$7 * 4 = 28$	$1955 - 11 = 1944$	$390 * -4 = -1560$
$28 + 11 = 39$	$1944 - -17 = 1961$	
	$8 : 8 = 1$	

Kopfrechnen mittel(25)

$6 - -3 = 9$	$15 : 3 = 5$	$0 + -17 = -17$
$9 - -1 = 10$	$5 * -2 = -10$	$-17 * -2 = 34$
$10 * 4 = 40$	$-10 + -3 = -13$	$34 + 6 = 40$
$40 + -16 = 24$	$-13 : 13 = -1$	$40 + -4 = 36$
$24 * -4 = -96$	$-1 * 1 = -1$	$36 - 19 = 17$
$-96 * -2 = 192$	$-1 - -19 = 18$	$17 - 11 = 6$
$192 + -14 = 178$	$18 - 4 = 14$	$6 : 6 = 1$
$178 * 5 = 890$	$14 * 0 = 0$	$1 * -4 = -4$
$890 : 5 = 178$	$0 + -10 = -10$	$-4 * 1 = -4$
$178 : 2 = 89$	$-10 * 5 = -50$	$-4 + -9 = -13$
$89 - -8 = 97$	$-50 * 2 = -100$	$-13 : 13 = -1$
$97 - -9 = 106$	$-100 + -7 = -107$	$-1 - -17 = 16$
$106 : 2 = 53$	$-107 * 0 = 0$	$16 : 4 = 4$
$53 - 13 = 40$	$0 + -16 = -16$	$4 + -7 = -3$
$40 * 0 = 0$	$-16 : 4 = -4$	$-3 * -2 = 6$
$0 + -18 = -18$	$-4 * 3 = -12$	$6 * 2 = 12$
$-18 + -7 = -25$	$-12 * 3 = -36$	$12 : 3 = 4$
$-25 * 3 = -75$	$-36 * 5 = -180$	$4 * -4 = -16$
$-75 * -4 = 300$	$-180 + 5 = -175$	$-16 : 8 = -2$
$300 - 0 = 300$	$-175 * -2 = 350$	$-2 - -5 = 3$
$300 * 2 = 600$	$350 : 5 = 70$	$3 + 20 = 23$
$600 : 4 = 150$	$70 * 1 = 70$	$23 - 8 = 15$
$150 : 3 = 50$	$70 : 10 = 7$	$15 * -4 = -60$
$50 - 15 = 35$	$7 + 9 = 16$	$-60 + 1 = -59$
$35 * -1 = -35$	$16 : 8 = 2$	$-59 * 5 = -295$
$-35 : 7 = -5$	$2 + 0 = 2$	$-295 * 3 = -885$
$-5 * -2 = 10$	$2 * -2 = -4$	$-885 + 10 = -875$
$10 + -17 = -7$	$-4 + -15 = -19$	$-875 * -1 = 875$
$-7 + -18 = -25$	$-19 * 2 = -38$	$875 : 5 = 175$
$-25 + -19 = -44$	$-38 + 13 = -25$	$175 + -19 = 156$
$-44 * 1 = -44$	$-25 * -3 = 75$	$156 * 2 = 312$
$-44 : 4 = -11$	$75 + 14 = 89$	$312 - 0 = 312$
$-11 + -4 = -15$	$89 - 16 = 73$	$312 : 3 = 104$
$-15 * -1 = 15$	$73 + 9 = 82$	$104 : 8 = 13$
$15 * -3 = -45$	$82 * 0 = 0$	$13 * 3 = 39$
$-45 + 14 = -31$	$0 + -18 = -18$	$39 : 3 = 13$
$-31 * 3 = -93$	$-18 * 1 = -18$	$13 : 13 = 1$
$-93 : 3 = -31$	$-18 + 17 = -1$	
	$17 * 0 = 0$	

Kopfrechnen mittel(26)

$6 - -7 = 13$	$8 : 8 = 1$	$-30 * -3 = 90$
$13 + -12 = 1$	$1 - -1 = 2$	$90 * 0 = 0$
$1 * 3 = 3$	$2 * 3 = 6$	$0 + -2 = -2$
$3 : 3 = 1$	$6 + -8 = -2$	$-2 : 2 = -1$
$1 + -1 = 0$	$-2 * 1 = -2$	$-1 * -1 = 1$
$0 + 3 = 3$	$-2 * -2 = 4$	$1 * 3 = 3$
$3 - -7 = 10$	$4 - -3 = 7$	$3 + -16 = -13$
$10 * 4 = 40$	$7 * 1 = 7$	$-13 : 13 = -1$
$40 : 10 = 4$	$7 + 5 = 12$	$-1 - -5 = 4$
$4 - -18 = 22$	$12 - -13 = 25$	$4 + -4 = 0$
$22 * 2 = 44$	$25 * 1 = 25$	$0 + 7 = 7$
$44 + -17 = 27$	$25 * 4 = 100$	$7 * 0 = 0$
$27 + -3 = 24$	$100 : 10 = 10$	$0 + -5 = -5$
$24 : 3 = 8$	$10 + -13 = -3$	$-5 * -2 = 10$
$8 + 19 = 27$	$-3 : 3 = -1$	$10 + -1 = 9$
$27 - 0 = 27$	$-1 * 1 = -1$	$9 * 0 = 0$
$27 : 3 = 9$	$-1 + -5 = -6$	$0 + 5 = 5$
$9 + -7 = 2$	$-6 + 12 = 6$	$5 * -4 = -20$
$2 - -16 = 18$	$6 : 3 = 2$	$-20 + 14 = -6$
$18 * 3 = 54$	$2 + -18 = -16$	$-6 * 5 = -30$
$54 * 3 = 162$	$-16 + -7 = -23$	$-30 * 1 = -30$
$162 - -2 = 164$	$-23 + -19 = -42$	$-30 : 5 = -6$
$164 - 10 = 154$	$-42 : 6 = -7$	$-6 - -10 = 4$
$154 * 1 = 154$	$-7 + 20 = 13$	$4 + 6 = 10$
$154 * 1 = 154$	$13 + -10 = 3$	$10 * -3 = -30$
$154 * 2 = 308$	$3 - -16 = 19$	$-30 * -1 = 30$
$308 - 7 = 301$	$19 - 6 = 13$	$30 : 10 = 3$
$301 + 6 = 307$	$13 : 13 = 1$	$3 - -4 = 7$
$307 * -4 = -1228$	$1 - -11 = 12$	$7 + 8 = 15$
$-1228 * -4 = 4912$	$12 - -7 = 19$	$15 - -4 = 19$
$4912 + 2 = 4914$	$19 * 1 = 19$	$19 + 10 = 29$
$4914 + 16 = 4930$	$19 * 5 = 95$	$29 + -15 = 14$
$4930 * 2 = 9860$	$95 - 17 = 78$	$14 + 2 = 16$
$9860 + -9 = 9851$	$78 - 14 = 64$	$16 + -5 = 11$
$9851 + -6 = 9845$	$64 : 2 = 32$	$11 - -6 = 17$
$9845 : 11 = 895$	$32 - -10 = 42$	$17 + -2 = 15$
$895 * -4 = -3580$	$42 - -11 = 53$	$15 : 3 = 5$
$-3580 : 10 = -358$	$53 * 2 = 106$	
	$15 * -2 = -30$	

Kopfrechnen mittel(27)

$9 + 13 = 22$	$1 + 2 = 3$	$22 - 19 = 3$
$22 : 11 = 2$	$3 + 16 = 19$	$3 * 0 = 0$
$2 * -1 = -2$	$19 * -1 = -19$	$0 + -9 = -9$
$-2 * 1 = -2$	$-19 * 0 = 0$	$-9 * 1 = -9$
$-2 * 4 = -8$	$0 + -16 = -16$	$-9 + 12 = 3$
$-8 * -1 = 8$	$-16 : 8 = -2$	$3 + -13 = -10$
$8 + 11 = 19$	$-2 * 4 = -8$	$-10 + -5 = -15$
$19 - -18 = 37$	$-8 + -11 = -19$	$-15 : 3 = -5$
$37 + -9 = 28$	$-19 * 4 = -76$	$-5 * -1 = 5$
$28 * -4 = -112$	$-76 * 5 = -380$	$5 : 5 = 1$
$-112 : 7 = -16$	$-380 * 4 = -1520$	$1 * 5 = 5$
$-16 * 5 = -80$	$-1520 : 10 = -152$	$5 * -4 = -20$
$-80 : 2 = -40$	$-152 + -18 = -170$	$-20 * 0 = 0$
$-40 : 8 = -5$	$-170 : 5 = -34$	$0 + -9 = -9$
$-5 : 5 = -1$	$-34 : 2 = -17$	$-9 + -16 = -25$
$-1 * 2 = -2$	$-17 * 5 = -85$	$-25 * -4 = 100$
$-2 - -4 = 2$	$-85 * 2 = -170$	$100 : 5 = 20$
$2 + 5 = 7$	$-170 * 5 = -850$	$20 + -1 = 19$
$7 : 7 = 1$	$-850 : 10 = -85$	$19 * 5 = 95$
$1 + 15 = 16$	$-85 : 5 = -17$	$95 * 5 = 475$
$16 * -1 = -16$	$-17 + 13 = -4$	$475 + -15 = 460$
$-16 * 1 = -16$	$-4 * -2 = 8$	$460 + 16 = 476$
$-16 : 2 = -8$	$8 * 1 = 8$	$476 - 9 = 467$
$-8 + 18 = 10$	$8 * 1 = 8$	$467 - 5 = 462$
$10 + 19 = 29$	$8 : 8 = 1$	$462 - -15 = 477$
$29 * -2 = -58$	$1 + -8 = -7$	$477 : 9 = 53$
$-58 + 16 = -42$	$-7 : 7 = -1$	$53 - 13 = 40$
$-42 + 17 = -25$	$-1 + -12 = -13$	$40 * -2 = -80$
$-25 + -2 = -27$	$-13 + 19 = 6$	$-80 : 2 = -40$
$-27 + -18 = -45$	$6 * -3 = -18$	$-40 : 10 = -4$
$-45 + -18 = -63$	$-18 + -3 = -21$	$-4 + -8 = -12$
$-63 + 17 = -46$	$-21 * 2 = -42$	$-12 * 1 = -12$
$-46 * 5 = -230$	$-42 + -8 = -50$	$-12 * -3 = 36$
$-230 : 5 = -46$	$-50 + -18 = -68$	$36 + 0 = 36$
$-46 + 2 = -44$	$-68 + 9 = -59$	$36 + -12 = 24$
$-44 : 2 = -22$	$-59 + 13 = -46$	$24 + 17 = 41$
$-22 * 2 = -44$	$-46 : 2 = -23$	$41 - 15 = 26$
$-44 + 5 = -39$	$-23 + 16 = -7$	
	$15 + 7 = 22$	

Kopfrechnen mittel(28)

$14 * 0 = 0$	$8 - -16 = 24$	$4 + 14 = 18$
$0 + 15 = 15$	$24 + 7 = 31$	$18 * -3 = -54$
$15 : 3 = 5$	$31 * -4 = -124$	$-54 * 5 = -270$
$5 - -10 = 15$	$-124 : 2 = -62$	$-270 + -8 = -278$
$15 - -16 = 31$	$-62 : 2 = -31$	$-278 * -4 = 1112$
$31 + -17 = 14$	$-31 * 0 = 0$	$1112 - -4 = 1116$
$14 - -3 = 17$	$0 + 4 = 4$	$1116 + -2 = 1114$
$17 * -2 = -34$	$4 : 4 = 1$	$1114 : 2 = 557$
$-34 * 4 = -136$	$1 + -19 = -18$	$557 * 3 = 1671$
$-136 + 10 = -126$	$-18 + -13 = -31$	$1671 : 3 = 557$
$-126 + -16 = -142$	$-31 * -2 = 62$	$557 * -3 = -1671$
$-142 * 4 = -568$	$62 - -14 = 76$	$-1671 * 3 = -5013$
$-568 + -13 = -581$	$76 + -13 = 63$	$-5013 + -15 = -5028$
$-581 + -10 = -591$	$63 : 7 = 9$	$-5028 * -3 = 15084$
$-591 * -3 = 1773$	$9 : 3 = 3$	$15084 * 2 = 30168$
$1773 - -10 = 1783$	$3 * 5 = 15$	$30168 + 12 = 30180$
$1783 + -14 = 1769$	$15 - -11 = 26$	$30180 + -3 = 30177$
$1769 + -13 = 1756$	$26 + -19 = 7$	$30177 - 14 = 30163$
$1756 - -3 = 1759$	$7 - -13 = 20$	$30163 * 4 = 120652$
$1759 * 2 = 3518$	$20 : 4 = 5$	$120652 + 8 = 120660$
$3518 - 17 = 3501$	$5 - -10 = 15$	$120660 : 6 = 20110$
$3501 * 2 = 7002$	$15 + -13 = 2$	$20110 * 4 = 80440$
$7002 - -11 = 7013$	$2 + -5 = -3$	$80440 - -19 = 80459$
$7013 + -9 = 7004$	$-3 : 3 = -1$	$80459 - 12 = 80447$
$7004 - 19 = 6985$	$-1 - -1 = 0$	$80447 * 3 = 241341$
$6985 - 8 = 6977$	$0 + -13 = -13$	$241341 + -11 = 241330$
$6977 + 1 = 6978$	$-13 + -12 = -25$	$241330 : 2 = 120665$
$6978 : 2 = 3489$	$-25 * -1 = 25$	$120665 + 20 = 120685$
$3489 - 14 = 3475$	$25 + -6 = 19$	$120685 - -7 = 120692$
$3475 - 8 = 3467$	$19 * 0 = 0$	$120692 : 4 = 30173$
$3467 - -8 = 3475$	$0 + 9 = 9$	$30173 + -10 = 30163$
$3475 + -4 = 3471$	$9 * 3 = 27$	$30163 - 9 = 30154$
$3471 + 15 = 3486$	$27 + 2 = 29$	$30154 : 2 = 15077$
$3486 : 3 = 1162$	$29 + 18 = 47$	$15077 * 4 = 60308$
$1162 + 0 = 1162$	$47 - 3 = 44$	$60308 + 3 = 60311$
$1162 - -10 = 1172$	$44 * -1 = -44$	$60311 * -3 = -180933$
$1172 + 5 = 1177$	$-44 * 0 = 0$	$-180933 * 4 = -723732$
$1177 - 8 = 1169$	$0 + -11 = -11$	
	$20 : 5 = 4$	

Kopfrechnen mittel(29)

$$\begin{aligned}17 + 5 &= 22 \\22 + -15 &= 7 \\7 * -4 &= -28 \\-28 : 7 &= -4 \\-4 * 4 &= -16 \\-16 : 2 &= -8 \\-8 + -6 &= -14 \\-14 * 0 &= 0 \\0 + -7 &= -7 \\-7 + -6 &= -13 \\-13 : 13 &= -1 \\-1 - -1 &= 0 \\0 + 2 &= 2 \\2 + 12 &= 14 \\14 - 12 &= 2 \\2 + -7 &= -5 \\-5 * 2 &= -10 \\-10 : 2 &= -5 \\-5 + 6 &= 1 \\1 + -18 &= -17 \\-17 - -18 &= 1 \\1 * 2 &= 2 \\2 - -4 &= 6 \\6 - 5 &= 1 \\1 * 0 &= 0 \\0 + -7 &= -7 \\-7 + 15 &= 8 \\8 : 2 &= 4 \\4 + 5 &= 9 \\9 + -16 &= -7 \\-7 - -16 &= 9 \\9 * -3 &= -27 \\-27 * -1 &= 27 \\27 - 13 &= 14 \\14 - 12 &= 2 \\2 : 2 &= 1 \\1 * 5 &= 5 \\5 * 2 &= 10\end{aligned}$$

$$\begin{aligned}6 : 6 &= 1 \\1 - -9 &= 10 \\10 : 5 &= 2 \\2 * -2 &= -4 \\-4 * 0 &= 0 \\0 + 20 &= 20 \\20 + 3 &= 23 \\23 * -3 &= -69 \\-69 + -6 &= -75 \\-75 * -1 &= 75 \\75 - -14 &= 89 \\89 + -5 &= 84 \\84 : 7 &= 12 \\12 * 5 &= 60 \\60 + -3 &= 57 \\57 * 1 &= 57 \\57 + -18 &= 39 \\39 : 13 &= 3 \\3 + 0 &= 3 \\3 + 4 &= 7 \\7 : 7 &= 1 \\1 * -2 &= -2 \\-2 + -15 &= -17 \\-17 * 4 &= -68 \\-68 + -16 &= -84 \\-84 + 13 &= -71 \\-71 + 7 &= -64 \\-64 : 4 &= -16 \\-16 * 4 &= -64 \\-64 * 3 &= -192 \\-192 * 1 &= -192 \\-192 + -9 &= -201 \\-201 : 3 &= -67 \\-67 + -11 &= -78 \\-78 + -18 &= -96 \\-96 : 3 &= -32 \\-32 + -19 &= -51 \\-51 : 3 &= -17 \\2 - 0 &= 2\end{aligned}$$

$$\begin{aligned}2 : 2 &= 1 \\1 * 5 &= 5 \\5 - -11 &= 16 \\16 + -1 &= 15 \\15 + -15 &= 0 \\0 + -11 &= -11 \\-11 * 0 &= 0 \\0 + -5 &= -5 \\-5 * 3 &= -15 \\-15 : 5 &= -3 \\-3 * 0 &= 0 \\0 + -16 &= -16 \\-16 + -10 &= -26 \\-26 * 1 &= -26 \\-26 + -5 &= -31 \\-31 * 1 &= -31 \\-31 * -4 &= 124 \\124 * 0 &= 0 \\0 + -14 &= -14 \\-14 * -3 &= 42 \\42 - -14 &= 56 \\56 + -10 &= 46 \\46 * 0 &= 0 \\0 + -14 &= -14 \\-14 * 1 &= -14 \\-14 + -4 &= -18 \\-18 * 2 &= -36 \\-36 + -4 &= -40 \\-40 : 4 &= -10 \\-10 : 10 &= -1 \\-1 * -2 &= 2 \\2 + 0 &= 2 \\2 * 5 &= 10 \\10 : 2 &= 5 \\5 * 1 &= 5 \\5 : 5 &= 1 \\1 * -2 &= -2\end{aligned}$$

Kopfrechnen mittel(30)

$13 + -5 = 8$	$16 - 2 = 14$	$15 : 5 = 3$
$8 * 2 = 16$	$14 - -16 = 30$	$3 - -9 = 12$
$16 * -3 = -48$	$30 * -2 = -60$	$12 * 0 = 0$
$-48 + -4 = -52$	$-60 + 14 = -46$	$0 + 12 = 12$
$-52 * 4 = -208$	$-46 * 1 = -46$	$12 + 6 = 18$
$-208 * 1 = -208$	$-46 + 11 = -35$	$18 * -2 = -36$
$-208 * 2 = -416$	$-35 + 10 = -25$	$-36 * 4 = -144$
$-416 + 18 = -398$	$-25 * -3 = 75$	$-144 + 15 = -129$
$-398 + -7 = -405$	$75 * -4 = -300$	$-129 : 3 = -43$
$-405 * -3 = 1215$	$-300 * 4 = -1200$	$-43 * 1 = -43$
$1215 - 18 = 1197$	$-1200 * -1 = 1200$	$-43 * -3 = 129$
$1197 - 7 = 1190$	$1200 : 5 = 240$	$129 : 3 = 43$
$1190 : 5 = 238$	$240 * -3 = -720$	$43 * 1 = 43$
$238 - -18 = 256$	$-720 + 12 = -708$	$43 * 4 = 172$
$256 - 14 = 242$	$-708 : 3 = -236$	$172 * 3 = 516$
$242 : 11 = 22$	$-236 * 3 = -708$	$516 * 5 = 2580$
$22 : 2 = 11$	$-708 * 5 = -3540$	$2580 - -16 = 2596$
$11 * 0 = 0$	$-3540 : 12 = -295$	$2596 - -4 = 2600$
$0 + -10 = -10$	$-295 * -3 = 885$	$2600 + 12 = 2612$
$-10 + -5 = -15$	$885 - -14 = 899$	$2612 - 1 = 2611$
$-15 : 3 = -5$	$899 * -4 = -3596$	$2611 * 3 = 7833$
$-5 - -19 = 14$	$-3596 + 16 = -3580$	$7833 * 3 = 23499$
$14 * 1 = 14$	$-3580 + 6 = -3574$	$23499 - -5 = 23504$
$14 - -16 = 30$	$-3574 : 2 = -1787$	$23504 - 11 = 23493$
$30 * 3 = 90$	$-1787 + 4 = -1783$	$23493 : 3 = 7831$
$90 : 3 = 30$	$-1783 * -2 = 3566$	$7831 * -1 = -7831$
$30 + 4 = 34$	$3566 * -2 = -7132$	$-7831 * 0 = 0$
$34 + 14 = 48$	$-7132 : 4 = -1783$	$0 + 4 = 4$
$48 - 19 = 29$	$-1783 + -1 = -1784$	$4 * 4 = 16$
$29 * -1 = -29$	$-1784 : 8 = -223$	$16 : 4 = 4$
$-29 + -6 = -35$	$-223 * 4 = -892$	$4 + 10 = 14$
$-35 + -16 = -51$	$-892 + -17 = -909$	$14 + -16 = -2$
$-51 + 1 = -50$	$-909 * 4 = -3636$	$-2 + 7 = 5$
$-50 + 17 = -33$	$-3636 * -1 = 3636$	$5 * 3 = 15$
$-33 * -4 = 132$	$3636 - -1 = 3637$	$15 * -3 = -45$
$132 - -11 = 143$	$3637 - 8 = 3629$	$-45 + 9 = -36$
$143 * 0 = 0$	$3629 - -5 = 3634$	$-36 : 3 = -12$
$0 + 6 = 6$	$3634 * 4 = 14536$	
	$2 - -13 = 15$	

Kopfrechnen mittel(31)

$3 + -12 = -9$	$12 : 12 = 1$	$3 * 3 = 9$
$-9 * -4 = 36$	$1 * -3 = -3$	$9 - -13 = 22$
$36 : 9 = 4$	$-3 + 5 = 2$	$22 + 16 = 38$
$4 + -6 = -2$	$2 + 13 = 15$	$38 : 2 = 19$
$-2 * -3 = 6$	$15 * -3 = -45$	$19 * 1 = 19$
$6 - 2 = 4$	$-45 : 3 = -15$	$19 + -7 = 12$
$4 : 4 = 1$	$-15 : 3 = -5$	$12 : 2 = 6$
$1 - -2 = 3$	$-5 * 5 = -25$	$6 : 2 = 3$
$3 : 3 = 1$	$-25 : 5 = -5$	$3 + 9 = 12$
$1 * 4 = 4$	$-5 * -2 = 10$	$12 + 9 = 21$
$4 * -1 = -4$	$10 : 2 = 5$	$21 * 0 = 0$
$-4 * 0 = 0$	$5 - -9 = 14$	$0 + 2 = 2$
$0 + 11 = 11$	$14 * 2 = 28$	$2 : 2 = 1$
$11 * -4 = -44$	$28 * 0 = 0$	$1 + -18 = -17$
$-44 * -4 = 176$	$0 + -12 = -12$	$-17 * -1 = 17$
$176 * -2 = -352$	$-12 + 2 = -10$	$17 - -5 = 22$
$-352 + 1 = -351$	$-10 : 10 = -1$	$22 * -4 = -88$
$-351 * 1 = -351$	$-1 + 17 = 16$	$-88 * -2 = 176$
$-351 + -1 = -352$	$16 : 8 = 2$	$176 + -19 = 157$
$-352 + 8 = -344$	$2 - -8 = 10$	$157 - -17 = 174$
$-344 + 11 = -333$	$10 - 9 = 1$	$174 * 1 = 174$
$-333 + -9 = -342$	$1 * 2 = 2$	$174 - -15 = 189$
$-342 + -19 = -361$	$2 - -9 = 11$	$189 + 15 = 204$
$-361 * -4 = 1444$	$11 * 5 = 55$	$204 + 7 = 211$
$1444 - -4 = 1448$	$55 + 11 = 66$	$211 + 7 = 218$
$1448 : 2 = 724$	$66 * 3 = 198$	$218 * -2 = -436$
$724 - 10 = 714$	$198 + -8 = 190$	$-436 * -4 = 1744$
$714 + 20 = 734$	$190 * 2 = 380$	$1744 - 11 = 1733$
$734 + 3 = 737$	$380 + 6 = 386$	$1733 - -13 = 1746$
$737 - -14 = 751$	$386 - -16 = 402$	$1746 - -15 = 1761$
$751 * 0 = 0$	$402 : 3 = 134$	$1761 - 3 = 1758$
$0 + -1 = -1$	$134 * -3 = -402$	$1758 - -5 = 1763$
$-1 * 3 = -3$	$-402 * 2 = -804$	$1763 * -2 = -3526$
$-3 * 0 = 0$	$-804 + -14 = -818$	$-3526 + 18 = -3508$
$0 + 0 = 0$	$-818 + -3 = -821$	$-3508 : 4 = -877$
$0 + -12 = -12$	$-821 * 4 = -3284$	$-877 + 5 = -872$
$-12 + -16 = -28$	$-3284 : 2 = -1642$	$-872 * 5 = -4360$
$-28 : 4 = -7$	$-1642 : 2 = -821$	
	$9 : 3 = 3$	

Kopfrechnen mittel(32)

$5 + 5 = 10$	$1 * -1 = -1$	$15 * 0 = 0$
$10 : 10 = 1$	$-1 * 2 = -2$	$0 + 5 = 5$
$1 - -12 = 13$	$-2 + 14 = 12$	$5 * 2 = 10$
$13 + 6 = 19$	$12 : 12 = 1$	$10 + 16 = 26$
$19 + -7 = 12$	$1 - -9 = 10$	$26 + -5 = 21$
$12 + 2 = 14$	$10 - 2 = 8$	$21 - 5 = 16$
$14 * 0 = 0$	$8 + 11 = 19$	$16 * -3 = -48$
$0 + 19 = 19$	$19 + 10 = 29$	$-48 + 16 = -32$
$19 - 4 = 15$	$29 * 4 = 116$	$-32 + -13 = -45$
$15 : 3 = 5$	$116 - -9 = 125$	$-45 * 4 = -180$
$5 * 3 = 15$	$125 * 3 = 375$	$-180 : 6 = -30$
$15 + 11 = 26$	$375 : 3 = 125$	$-30 + -11 = -41$
$26 + 18 = 44$	$125 : 5 = 25$	$-41 + -14 = -55$
$44 + 11 = 55$	$25 * 5 = 125$	$-55 + 12 = -43$
$55 + -11 = 44$	$125 : 5 = 25$	$-43 + -14 = -57$
$44 * -3 = -132$	$25 - 2 = 23$	$-57 + -2 = -59$
$-132 : 12 = -11$	$23 * 2 = 46$	$-59 + -17 = -76$
$-11 + 15 = 4$	$46 + -7 = 39$	$-76 : 4 = -19$
$4 * 0 = 0$	$39 + -9 = 30$	$-19 * 1 = -19$
$0 + -1 = -1$	$30 : 5 = 6$	$-19 * 4 = -76$
$-1 * 1 = -1$	$6 : 3 = 2$	$-76 + -2 = -78$
$-1 * -3 = 3$	$2 * 5 = 10$	$-78 : 3 = -26$
$3 * 2 = 6$	$10 * 1 = 10$	$-26 + -3 = -29$
$6 - 0 = 6$	$10 * 0 = 0$	$-29 * -4 = 116$
$6 + -1 = 5$	$0 + -9 = -9$	$116 * 5 = 580$
$5 : 5 = 1$	$-9 * -4 = 36$	$580 + 1 = 581$
$1 * -1 = -1$	$36 + -11 = 25$	$581 * -1 = -581$
$-1 + -7 = -8$	$25 + 13 = 38$	$-581 : 7 = -83$
$-8 * 5 = -40$	$38 - -1 = 39$	$-83 + 20 = -63$
$-40 : 4 = -10$	$39 * 0 = 0$	$-63 + 20 = -43$
$-10 : 10 = -1$	$0 + 7 = 7$	$-43 * 2 = -86$
$-1 + -2 = -3$	$7 * -4 = -28$	$-86 : 2 = -43$
$-3 + -2 = -5$	$-28 * 4 = -112$	$-43 + 6 = -37$
$-5 - -9 = 4$	$-112 + -11 = -123$	$-37 * 0 = 0$
$4 + -16 = -12$	$-123 + -17 = -140$	$0 + -9 = -9$
$-12 + 17 = 5$	$-140 * 3 = -420$	$-9 + -16 = -25$
$5 * -1 = -5$	$-420 : 6 = -70$	$-25 + 0 = -25$
$-5 * 5 = -25$	$-70 * -3 = 210$	
	$5 * 3 = 15$	

Kopfrechnen mittel(33)

$1 - -5 = 6$	$20 + -10 = 10$	$16 : 2 = 8$
$6 : 6 = 1$	$10 - -2 = 12$	$8 - -4 = 12$
$1 + -8 = -7$	$12 * 3 = 36$	$12 : 4 = 3$
$-7 - -15 = 8$	$36 : 12 = 3$	$3 - -8 = 11$
$8 + 17 = 25$	$3 : 3 = 1$	$11 - -17 = 28$
$25 + -11 = 14$	$1 * -4 = -4$	$28 - 4 = 24$
$14 : 7 = 2$	$-4 * 1 = -4$	$24 - 13 = 11$
$2 : 2 = 1$	$-4 * -3 = 12$	$11 + 13 = 24$
$1 - 0 = 1$	$12 : 3 = 4$	$24 - -16 = 40$
$1 + 9 = 10$	$4 + -4 = 0$	$40 : 8 = 5$
$10 * 3 = 30$	$0 + -2 = -2$	$5 * 0 = 0$
$30 + 9 = 39$	$-2 + -6 = -8$	$0 + 4 = 4$
$39 + 14 = 53$	$-8 + 0 = -8$	$4 * -3 = -12$
$53 * 2 = 106$	$-8 + 10 = 2$	$-12 * -2 = 24$
$106 - -16 = 122$	$2 - -8 = 10$	$24 + 16 = 40$
$122 * 4 = 488$	$10 : 10 = 1$	$40 * 0 = 0$
$488 - -9 = 497$	$1 + -5 = -4$	$0 + 19 = 19$
$497 - -5 = 502$	$-4 * -1 = 4$	$19 + 12 = 31$
$502 * 4 = 2008$	$4 + -6 = -2$	$31 - 11 = 20$
$2008 + -19 = 1989$	$-2 + -9 = -11$	$20 - -3 = 23$
$1989 : 3 = 663$	$-11 + -8 = -19$	$23 - -19 = 42$
$663 + 9 = 672$	$-19 * 2 = -38$	$42 - -14 = 56$
$672 + 17 = 689$	$-38 : 2 = -19$	$56 : 2 = 28$
$689 * -4 = -2756$	$-19 * 1 = -19$	$28 + 11 = 39$
$-2756 + 0 = -2756$	$-19 + -7 = -26$	$39 : 13 = 3$
$-2756 + -7 = -2763$	$-26 * 0 = 0$	$3 + 10 = 13$
$-2763 * -3 = 8289$	$0 + 3 = 3$	$13 * -3 = -39$
$8289 + 9 = 8298$	$3 * 5 = 15$	$-39 : 13 = -3$
$8298 : 3 = 2766$	$15 : 3 = 5$	$-3 + 2 = -1$
$2766 + 0 = 2766$	$5 * 3 = 15$	$-1 * 5 = -5$
$2766 : 6 = 461$	$15 : 3 = 5$	$-5 : 5 = -1$
$461 * 0 = 0$	$5 : 5 = 1$	$-1 + 19 = 18$
$0 + 13 = 13$	$1 * -3 = -3$	$18 + 14 = 32$
$13 : 13 = 1$	$-3 * -2 = 6$	$32 * 2 = 64$
$1 + -11 = -10$	$6 * 0 = 0$	$64 + -2 = 62$
$-10 - -11 = 1$	$0 + 0 = 0$	$62 * -1 = -62$
$1 - -13 = 14$	$0 + 18 = 18$	$-62 * -2 = 124$
$14 + 8 = 22$	$18 + -2 = 16$	
	$13 - -3 = 16$	

Kopfrechnen mittel(34)

$10 - -10 = 20$

$20 * -1 = -20$

$-20 * 5 = -100$

$-100 + 5 = -95$

$-95 * -4 = 380$

$380 : 10 = 38$

$38 + 2 = 40$

$40 : 4 = 10$

$10 - 9 = 1$

$1 + 4 = 5$

$5 - -1 = 6$

$6 + 7 = 13$

$13 * -4 = -52$

$-52 * -2 = 104$

$104 - 11 = 93$

$93 - 18 = 75$

$75 * 3 = 225$

$225 - 17 = 208$

$208 + -4 = 204$

$204 : 2 = 102$

$102 : 3 = 34$

$34 : 2 = 17$

$17 * 5 = 85$

$85 - 17 = 68$

$68 - 9 = 59$

$59 + 0 = 59$

$59 - 13 = 46$

$46 - -12 = 58$

$58 + -13 = 45$

$45 - 20 = 25$

$25 * -1 = -25$

$-25 * 2 = -50$

$-50 * -2 = 100$

$100 - 20 = 80$

$80 : 2 = 40$

$40 * 4 = 160$

$160 : 5 = 32$

$32 - 15 = 17$

$12 * -4 = -48$

$-48 : 8 = -6$

$-6 * 3 = -18$

$-18 * -1 = 18$

$18 - -5 = 23$

$23 - -7 = 30$

$30 + 19 = 49$

$49 * -3 = -147$

$-147 * -3 = 441$

$441 + -2 = 439$

$439 + 14 = 453$

$453 * 4 = 1812$

$1812 : 3 = 604$

$604 + -19 = 585$

$585 * -2 = -1170$

$-1170 : 2 = -585$

$-585 + 20 = -565$

$-565 * 3 = -1695$

$-1695 + 0 = -1695$

$-1695 * 4 = -6780$

$-6780 + -18 = -6798$

$-6798 + 16 = -6782$

$-6782 : 2 = -3391$

$-3391 + 18 = -3373$

$-3373 * 4 = -13492$

$-13492 + -14 = -13506$

$-13506 : 6 = -2251$

$-2251 * 4 = -9004$

$-9004 * -3 = 27012$

$27012 * -1 = -27012$

$-27012 : 4 = -6753$

$-6753 + 13 = -6740$

$-6740 : 2 = -3370$

$-3370 : 5 = -674$

$-674 + 15 = -659$

$-659 + 18 = -641$

$-641 * -4 = 2564$

$2564 - 17 = 2547$

$6 * 5 = 30$

$30 - -10 = 40$

$40 - -10 = 50$

$50 - 9 = 41$

$41 - 10 = 31$

$31 + 7 = 38$

$38 * 1 = 38$

$38 + 1 = 39$

$39 * -3 = -117$

$-117 + 5 = -112$

$-112 + 3 = -109$

$-109 * 1 = -109$

$-109 * 4 = -436$

$-436 : 2 = -218$

$-218 * -3 = 654$

$654 - 12 = 642$

$642 * -4 = -2568$

$-2568 * 1 = -2568$

$-2568 + 19 = -2549$

$-2549 + -1 = -2550$

$-2550 : 10 = -255$

$-255 : 5 = -51$

$-51 : 3 = -17$

$-17 * -2 = 34$

$34 - 0 = 34$

$34 + -5 = 29$

$29 * -2 = -58$

$-58 : 2 = -29$

$-29 + 5 = -24$

$-24 : 3 = -8$

$-8 * 0 = 0$

$0 + -13 = -13$

$-13 + 5 = -8$

$-8 * 4 = -32$

$-32 * -2 = 64$

$64 - 1 = 63$

$63 - -16 = 79$

$79 + -5 = 74$

Kopfrechnen mittel(35)

$19 - -3 = 22$	$13 + -8 = 5$	$-34 * -3 = 102$
$22 + 0 = 22$	$5 * -2 = -10$	$102 - -17 = 119$
$22 + 19 = 41$	$-10 + -13 = -23$	$119 : 7 = 17$
$41 + -18 = 23$	$-23 * 5 = -115$	$17 - -1 = 18$
$23 - -15 = 38$	$-115 : 5 = -23$	$18 - -13 = 31$
$38 * 0 = 0$	$-23 * 0 = 0$	$31 * 4 = 124$
$0 + 3 = 3$	$0 + -10 = -10$	$124 - -15 = 139$
$3 : 3 = 1$	$-10 + -12 = -22$	$139 - -1 = 140$
$1 + -17 = -16$	$-22 + 2 = -20$	$140 + -3 = 137$
$-16 * 4 = -64$	$-20 + 18 = -2$	$137 * 0 = 0$
$-64 * 2 = -128$	$-2 : 2 = -1$	$0 + 3 = 3$
$-128 + 3 = -125$	$-1 - -14 = 13$	$3 + 9 = 12$
$-125 + 13 = -112$	$13 * -2 = -26$	$12 : 12 = 1$
$-112 * -4 = 448$	$-26 * 1 = -26$	$1 * -1 = -1$
$448 - 7 = 441$	$-26 + -13 = -39$	$-1 * 4 = -4$
$441 + -9 = 432$	$-39 * 1 = -39$	$-4 + -5 = -9$
$432 + -5 = 427$	$-39 + -14 = -53$	$-9 + -11 = -20$
$427 : 7 = 61$	$-53 + 16 = -37$	$-20 : 5 = -4$
$61 * -4 = -244$	$-37 + -5 = -42$	$-4 + 18 = 14$
$-244 * -4 = 976$	$-42 + -15 = -57$	$14 : 2 = 7$
$976 - 3 = 973$	$-57 + -7 = -64$	$7 * 3 = 21$
$973 + -12 = 961$	$-64 + 12 = -52$	$21 * 2 = 42$
$961 - -7 = 968$	$-52 * 2 = -104$	$42 * 4 = 168$
$968 : 2 = 484$	$-104 : 8 = -13$	$168 : 4 = 42$
$484 * 5 = 2420$	$-13 + -11 = -24$	$42 + -18 = 24$
$2420 + 18 = 2438$	$-24 + -6 = -30$	$24 - 11 = 13$
$2438 * 3 = 7314$	$-30 : 2 = -15$	$13 + -15 = -2$
$7314 - 15 = 7299$	$-15 + 0 = -15$	$-2 * 4 = -8$
$7299 : 9 = 811$	$-15 : 3 = -5$	$-8 + -11 = -19$
$811 - 15 = 796$	$-5 + 19 = 14$	$-19 * 2 = -38$
$796 + 3 = 799$	$14 + 3 = 17$	$-38 + 10 = -28$
$799 + 3 = 802$	$17 * -3 = -51$	$-28 + 7 = -21$
$802 * -4 = -3208$	$-51 + -16 = -67$	$-21 : 7 = -3$
$-3208 + -12 = -3220$	$-67 + -7 = -74$	$-3 * -4 = 12$
$-3220 : 2 = -1610$	$-74 + 3 = -71$	$12 * -2 = -24$
$-1610 : 7 = -230$	$-71 * 0 = 0$	$-24 * 1 = -24$
$-230 : 10 = -23$	$0 + -7 = -7$	$-24 : 6 = -4$
$-23 * 2 = -46$	$-7 + -8 = -15$	
	$17 * -2 = -34$	

Kopfrechnen mittel(36)

$17 * -3 = -51$	$16 + -3 = 13$	$3 - -10 = 13$
$-51 * 1 = -51$	$13 * 5 = 65$	$13 + 15 = 28$
$-51 * 3 = -153$	$65 * 2 = 130$	$28 - -8 = 36$
$-153 * 0 = 0$	$130 : 10 = 13$	$36 + 14 = 50$
$0 + -12 = -12$	$13 : 13 = 1$	$50 + -8 = 42$
$-12 * 0 = 0$	$1 * 3 = 3$	$42 * 0 = 0$
$0 + -12 = -12$	$3 : 3 = 1$	$0 + 14 = 14$
$-12 - -12 = 0$	$1 * 1 = 1$	$14 + -9 = 5$
$0 + -2 = -2$	$1 - -18 = 19$	$5 * -4 = -20$
$-2 - -9 = 7$	$19 - -5 = 24$	$-20 * 1 = -20$
$7 * 0 = 0$	$24 - -18 = 42$	$-20 * -3 = 60$
$0 + -7 = -7$	$42 - -2 = 44$	$60 + -13 = 47$
$-7 * 5 = -35$	$44 - 11 = 33$	$47 - -11 = 58$
$-35 * -4 = 140$	$33 : 11 = 3$	$58 - 17 = 41$
$140 : 10 = 14$	$3 * -3 = -9$	$41 - -14 = 55$
$14 : 7 = 2$	$-9 : 9 = -1$	$55 + -15 = 40$
$2 + 4 = 6$	$-1 * -4 = 4$	$40 + 15 = 55$
$6 - -4 = 10$	$4 * -3 = -12$	$55 * 5 = 275$
$10 * 4 = 40$	$-12 : 2 = -6$	$275 + -9 = 266$
$40 + -16 = 24$	$-6 + -9 = -15$	$266 : 7 = 38$
$24 : 3 = 8$	$-15 + -12 = -27$	$38 - 8 = 30$
$8 : 4 = 2$	$-27 * 5 = -135$	$30 - 9 = 21$
$2 * -4 = -8$	$-135 + 8 = -127$	$21 - -19 = 40$
$-8 + -1 = -9$	$-127 * 2 = -254$	$40 : 4 = 10$
$-9 + 0 = -9$	$-254 * 3 = -762$	$10 + 20 = 30$
$-9 : 9 = -1$	$-762 : 6 = -127$	$30 - -12 = 42$
$-1 + 12 = 11$	$-127 * 4 = -508$	$42 : 3 = 14$
$11 - -15 = 26$	$-508 * -2 = 1016$	$14 * 1 = 14$
$26 * 0 = 0$	$1016 - 17 = 999$	$14 - -11 = 25$
$0 + -15 = -15$	$999 * -2 = -1998$	$25 : 5 = 5$
$-15 + -4 = -19$	$-1998 : 3 = -666$	$5 : 5 = 1$
$-19 + -14 = -33$	$-666 + 17 = -649$	$1 * 1 = 1$
$-33 + 0 = -33$	$-649 + 4 = -645$	$1 + 20 = 21$
$-33 : 11 = -3$	$-645 * 4 = -2580$	$21 + 14 = 35$
$-3 - -15 = 12$	$-2580 : 5 = -516$	$35 : 5 = 7$
$12 - -8 = 20$	$-516 : 3 = -172$	$7 + 12 = 19$
$20 + -9 = 11$	$-172 + -11 = -183$	$19 - 15 = 4$
$11 - 10 = 1$	$-183 : 3 = -61$	
	$11 + -8 = 3$	

Kopfrechnen mittel(37)

$2 + -8 = -6$

$-6 : 3 = -2$

$-2 * 4 = -8$

$-8 + 11 = 3$

$3 : 3 = 1$

$1 * 4 = 4$

$4 - -16 = 20$

$20 + -15 = 5$

$5 * 2 = 10$

$10 : 5 = 2$

$2 + 13 = 15$

$15 + 6 = 21$

$21 * 1 = 21$

$21 * 5 = 105$

$105 : 7 = 15$

$15 - -3 = 18$

$18 * 2 = 36$

$36 * 3 = 108$

$108 - 11 = 97$

$97 + 7 = 104$

$104 + 1 = 105$

$105 + 15 = 120$

$120 - 17 = 103$

$103 + 2 = 105$

$105 - -11 = 116$

$116 + 12 = 128$

$128 - 20 = 108$

$108 * -2 = -216$

$-216 : 6 = -36$

$-36 + -3 = -39$

$-39 : 13 = -3$

$-3 : 3 = -1$

$-1 * -2 = 2$

$2 + 11 = 13$

$13 * -3 = -39$

$-39 : 3 = -13$

$-13 * 3 = -39$

$-39 * 3 = -117$

$16 - -7 = 23$

$23 + 0 = 23$

$23 + 1 = 24$

$24 - -4 = 28$

$28 + -12 = 16$

$16 : 8 = 2$

$2 : 2 = 1$

$1 - -7 = 8$

$8 * 1 = 8$

$8 : 4 = 2$

$2 : 2 = 1$

$1 * -2 = -2$

$-2 + -15 = -17$

$-17 * -3 = 51$

$51 - -1 = 52$

$52 * 4 = 208$

$208 - 5 = 203$

$203 - -10 = 213$

$213 * 4 = 852$

$852 - 18 = 834$

$834 * 3 = 2502$

$2502 - 8 = 2494$

$2494 : 2 = 1247$

$1247 * 4 = 4988$

$4988 - 8 = 4980$

$4980 - 2 = 4978$

$4978 * 2 = 9956$

$9956 : 4 = 2489$

$2489 + 20 = 2509$

$2509 - -4 = 2513$

$2513 + 6 = 2519$

$2519 * 0 = 0$

$0 + -19 = -19$

$-19 * 5 = -95$

$-95 * 5 = -475$

$-475 * 3 = -1425$

$-1425 : 5 = -285$

$-285 + 12 = -273$

$20 - 17 = 3$

$3 + 3 = 6$

$6 * -2 = -12$

$-12 * -2 = 24$

$24 * -4 = -96$

$-96 * -4 = 384$

$384 : 2 = 192$

$192 + 7 = 199$

$199 - -15 = 214$

$214 - 19 = 195$

$195 + -1 = 194$

$194 + -9 = 185$

$185 - 7 = 178$

$178 * -4 = -712$

$-712 + -19 = -731$

$-731 + 6 = -725$

$-725 + -15 = -740$

$-740 * -4 = 2960$

$2960 + -18 = 2942$

$2942 - -5 = 2947$

$2947 * -2 = -5894$

$-5894 + -8 = -5902$

$-5902 + 9 = -5893$

$-5893 + -17 = -5910$

$-5910 + -17 = -5927$

$-5927 * -2 = 11854$

$11854 + 13 = 11867$

$11867 * 1 = 11867$

$11867 * 2 = 23734$

$23734 * -1 = -23734$

$-23734 * -4 = 94936$

$94936 + -14 = 94922$

$94922 * -1 = -94922$

$-94922 + -10 = -94932$

$-94932 : 3 = -31644$

$-31644 : 9 = -3516$

$-3516 : 4 = -879$

$-879 * 0 = 0$

Kopfrechnen mittel(38)

$6 + 3 = 9$	$19 + 3 = 22$	$0 + 8 = 8$
$9 * -3 = -27$	$22 - -3 = 25$	$8 - 2 = 6$
$-27 + 6 = -21$	$25 : 5 = 5$	$6 + 0 = 6$
$-21 + -17 = -38$	$5 + 14 = 19$	$6 * 2 = 12$
$-38 : 2 = -19$	$19 - -19 = 38$	$12 * 2 = 24$
$-19 * -2 = 38$	$38 * -4 = -152$	$24 * -4 = -96$
$38 : 2 = 19$	$-152 + 10 = -142$	$-96 : 2 = -48$
$19 - -6 = 25$	$-142 : 2 = -71$	$-48 * 5 = -240$
$25 * -2 = -50$	$-71 + 0 = -71$	$-240 + 8 = -232$
$-50 : 5 = -10$	$-71 + 16 = -55$	$-232 * -2 = 464$
$-10 : 2 = -5$	$-55 + -9 = -64$	$464 * -4 = -1856$
$-5 * 5 = -25$	$-64 + 13 = -51$	$-1856 * -2 = 3712$
$-25 * 3 = -75$	$-51 * -2 = 102$	$3712 * 4 = 14848$
$-75 + 4 = -71$	$102 * 2 = 204$	$14848 : 4 = 3712$
$-71 + -17 = -88$	$204 + -17 = 187$	$3712 * 2 = 7424$
$-88 * 0 = 0$	$187 : 11 = 17$	$7424 + -9 = 7415$
$0 + 2 = 2$	$17 * 3 = 51$	$7415 - 0 = 7415$
$2 + 7 = 9$	$51 * 0 = 0$	$7415 - 9 = 7406$
$9 + 9 = 18$	$0 + -6 = -6$	$7406 - 18 = 7388$
$18 : 3 = 6$	$-6 : 3 = -2$	$7388 + 5 = 7393$
$6 - -8 = 14$	$-2 - -9 = 7$	$7393 * -4 = -29572$
$14 * 4 = 56$	$7 - -16 = 23$	$-29572 : 2 = -14786$
$56 : 2 = 28$	$23 + 2 = 25$	$-14786 + -15 = -14801$
$28 - -1 = 29$	$25 - 8 = 17$	$-14801 + -8 = -14809$
$29 - -4 = 33$	$17 - 6 = 11$	$-14809 + -12 = -14821$
$33 : 11 = 3$	$11 - -18 = 29$	$-14821 * 5 = -74105$
$3 + 4 = 7$	$29 - 10 = 19$	$-74105 : 5 = -14821$
$7 + 5 = 12$	$19 + -17 = 2$	$-14821 + -1 = -14822$
$12 * -2 = -24$	$2 + -14 = -12$	$-14822 * -2 = 29644$
$-24 * 1 = -24$	$-12 + -14 = -26$	$29644 - -12 = 29656$
$-24 * -4 = 96$	$-26 : 13 = -2$	$29656 + -8 = 29648$
$96 : 6 = 16$	$-2 * 2 = -4$	$29648 + 3 = 29651$
$16 + 5 = 21$	$-4 : 4 = -1$	$29651 - -7 = 29658$
$21 + 9 = 30$	$-1 + 17 = 16$	$29658 : 6 = 4943$
$30 - 16 = 14$	$16 * -1 = -16$	$4943 * 1 = 4943$
$14 : 2 = 7$	$-16 + 13 = -3$	$4943 - 8 = 4935$
$7 + -5 = 2$	$-3 + -9 = -12$	$4935 - 1 = 4934$
$2 : 2 = 1$	$-12 * -3 = 36$	
	$2 + -2 = 0$	

Kopfrechnen mittel(39)

$$\begin{aligned}13 + -13 &= 0 \\0 + -18 &= -18 \\-18 * 4 &= -72 \\-72 + -2 &= -74 \\-74 : 2 &= -37 \\-37 * 2 &= -74 \\-74 + -5 &= -79 \\-79 + 12 &= -67 \\-67 + -11 &= -78 \\-78 : 13 &= -6 \\-6 + 19 &= 13 \\13 - 11 &= 2 \\2 + 17 &= 19 \\19 + -18 &= 1 \\1 + -13 &= -12 \\-12 : 3 &= -4 \\-4 * 1 &= -4 \\-4 * -4 &= 16 \\16 + -15 &= 1 \\1 * -2 &= -2 \\-2 : 2 &= -1 \\-1 + -7 &= -8 \\-8 + -19 &= -27 \\-27 * 3 &= -81 \\-81 : 9 &= -9 \\-9 + -15 &= -24 \\-24 : 12 &= -2 \\-2 + 6 &= 4 \\4 * 4 &= 16 \\16 * 0 &= 0 \\0 + 14 &= 14 \\14 - -16 &= 30 \\30 + -3 &= 27 \\27 - 3 &= 24 \\24 - -2 &= 26 \\26 : 2 &= 13 \\13 * 1 &= 13 \\13 * -1 &= -13\end{aligned}$$

$$\begin{aligned}12 - 10 &= 2 \\2 * 2 &= 4 \\4 - -2 &= 6 \\6 - 1 &= 5 \\5 * 3 &= 15 \\15 : 5 &= 3 \\3 - -9 &= 12 \\12 : 2 &= 6 \\6 + 8 &= 14 \\14 * -4 &= -56 \\-56 : 8 &= -7 \\-7 : 7 &= -1 \\-1 + 4 &= 3 \\3 : 3 &= 1 \\1 - -9 &= 10 \\10 * 3 &= 30 \\30 - -19 &= 49 \\49 * -1 &= -49 \\-49 * -2 &= 98 \\98 : 2 &= 49 \\49 + 20 &= 69 \\69 : 3 &= 23 \\23 - 2 &= 21 \\21 * -1 &= -21 \\-21 * 4 &= -84 \\-84 + -19 &= -103 \\-103 * -3 &= 309 \\309 * 4 &= 1236 \\1236 - 10 &= 1226 \\1226 + -7 &= 1219 \\1219 * -4 &= -4876 \\-4876 + 13 &= -4863 \\-4863 + -1 &= -4864 \\-4864 * -1 &= 4864 \\4864 : 8 &= 608 \\608 - -6 &= 614 \\614 : 2 &= 307 \\307 - -19 &= 326 \\14 + -9 &= 5\end{aligned}$$

$$\begin{aligned}5 + 16 &= 21 \\21 * 2 &= 42 \\42 : 6 &= 7 \\7 * 3 &= 21 \\21 - -1 &= 22 \\22 : 2 &= 11 \\11 * -1 &= -11 \\-11 + 17 &= 6 \\6 + -9 &= -3 \\-3 + 16 &= 13 \\13 * 0 &= 0 \\0 + 12 &= 12 \\12 - 7 &= 5 \\5 * 3 &= 15 \\15 - -8 &= 23 \\23 - 12 &= 11 \\11 + -12 &= -1 \\-1 + -2 &= -3 \\-3 : 3 &= -1 \\-1 - -11 &= 10 \\10 + -5 &= 5 \\5 * 5 &= 25 \\25 - -8 &= 33 \\33 + 19 &= 52 \\52 + 18 &= 70 \\70 : 2 &= 35 \\35 + 8 &= 43 \\43 * 4 &= 172 \\172 - -9 &= 181 \\181 * -3 &= -543 \\-543 + 16 &= -527 \\-527 + 6 &= -521 \\-521 * -3 &= 1563 \\1563 * 3 &= 4689 \\4689 - 8 &= 4681 \\4681 - 2 &= 4679 \\4679 * 5 &= 23395\end{aligned}$$

Kopfrechnen mittel(40)

$4 - 3 = 1$	$6 * -2 = -12$	$-6 + -18 = -24$
$1 * 2 = 2$	$-12 + 3 = -9$	$-24 : 3 = -8$
$2 : 2 = 1$	$-9 + 9 = 0$	$-8 + -19 = -27$
$1 + -6 = -5$	$0 + -2 = -2$	$-27 * -2 = 54$
$-5 - -12 = 7$	$-2 + -10 = -12$	$54 : 6 = 9$
$7 + -10 = -3$	$-12 : 2 = -6$	$9 + 19 = 28$
$-3 - -4 = 1$	$-6 + 0 = -6$	$28 + 5 = 33$
$1 * -1 = -1$	$-6 : 3 = -2$	$33 + -9 = 24$
$-1 + -7 = -8$	$-2 * 4 = -8$	$24 - 1 = 23$
$-8 : 4 = -2$	$-8 * -1 = 8$	$23 * 1 = 23$
$-2 : 2 = -1$	$8 * -3 = -24$	$23 * 5 = 115$
$-1 + 6 = 5$	$-24 + -1 = -25$	$115 - -12 = 127$
$5 * 3 = 15$	$-25 + 19 = -6$	$127 + -14 = 113$
$15 - -7 = 22$	$-6 + -9 = -15$	$113 + -18 = 95$
$22 * 5 = 110$	$-15 * 5 = -75$	$95 + 8 = 103$
$110 - -6 = 116$	$-75 : 5 = -15$	$103 - -2 = 105$
$116 : 4 = 29$	$-15 + -19 = -34$	$105 * 1 = 105$
$29 + -6 = 23$	$-34 + 7 = -27$	$105 * -4 = -420$
$23 - -9 = 32$	$-27 * -4 = 108$	$-420 : 12 = -35$
$32 * -2 = -64$	$108 - 6 = 102$	$-35 * 4 = -140$
$-64 + -3 = -67$	$102 : 3 = 34$	$-140 * 3 = -420$
$-67 * -4 = 268$	$34 - -10 = 44$	$-420 + -7 = -427$
$268 * 3 = 804$	$44 - 19 = 25$	$-427 * 2 = -854$
$804 - -1 = 805$	$25 : 5 = 5$	$-854 * 1 = -854$
$805 - -5 = 810$	$5 * -2 = -10$	$-854 : 2 = -427$
$810 - -1 = 811$	$-10 + 16 = 6$	$-427 * -2 = 854$
$811 + -19 = 792$	$6 : 2 = 3$	$854 - -7 = 861$
$792 : 4 = 198$	$3 * -1 = -3$	$861 + 20 = 881$
$198 - -8 = 206$	$-3 + 13 = 10$	$881 + 3 = 884$
$206 : 2 = 103$	$10 * 0 = 0$	$884 + -17 = 867$
$103 - 8 = 95$	$0 + -5 = -5$	$867 + -8 = 859$
$95 * 4 = 380$	$-5 + 3 = -2$	$859 + 16 = 875$
$380 + 1 = 381$	$-2 - -7 = 5$	$875 - -3 = 878$
$381 : 3 = 127$	$5 * -2 = -10$	$878 + -10 = 868$
$127 * 5 = 635$	$-10 + 11 = 1$	$868 - 2 = 866$
$635 - -13 = 648$	$1 + 5 = 6$	$866 * 0 = 0$
$648 * 2 = 1296$	$6 : 6 = 1$	$0 + -5 = -5$
$1296 : 9 = 144$	$1 + 3 = 4$	
	$6 * -1 = -6$	

Kopfrechnen mittel(41)

$18 - 10 = 8$	$15 * 2 = 30$	$20 + -11 = 9$
$8 + 6 = 14$	$30 - 5 = 25$	$9 + 2 = 11$
$14 + 14 = 28$	$25 * 2 = 50$	$11 * -4 = -44$
$28 : 2 = 14$	$50 : 2 = 25$	$-44 : 2 = -22$
$14 : 7 = 2$	$25 * -1 = -25$	$-22 : 11 = -2$
$2 * 4 = 8$	$-25 * 2 = -50$	$-2 + 10 = 8$
$8 + 2 = 10$	$-50 + -12 = -62$	$8 * 1 = 8$
$10 + 19 = 29$	$-62 : 2 = -31$	$8 * -2 = -16$
$29 * -2 = -58$	$-31 + -8 = -39$	$-16 + 18 = 2$
$-58 * 4 = -232$	$-39 + 0 = -39$	$2 + 19 = 21$
$-232 : 4 = -58$	$-39 + -12 = -51$	$21 : 7 = 3$
$-58 + 9 = -49$	$-51 * -2 = 102$	$3 + 0 = 3$
$-49 + -13 = -62$	$102 : 2 = 51$	$3 + 18 = 21$
$-62 + 16 = -46$	$51 : 3 = 17$	$21 - -1 = 22$
$-46 : 2 = -23$	$17 * 1 = 17$	$22 * 2 = 44$
$-23 * 1 = -23$	$17 * 0 = 0$	$44 : 2 = 22$
$-23 * -2 = 46$	$0 + 15 = 15$	$22 * 0 = 0$
$46 * -2 = -92$	$15 : 5 = 3$	$0 + 2 = 2$
$-92 + 11 = -81$	$3 * -1 = -3$	$2 + -12 = -10$
$-81 : 3 = -27$	$-3 * -3 = 9$	$-10 * 3 = -30$
$-27 : 9 = -3$	$9 * -4 = -36$	$-30 * -3 = 90$
$-3 * 5 = -15$	$-36 : 3 = -12$	$90 + -12 = 78$
$-15 : 5 = -3$	$-12 : 6 = -2$	$78 - 3 = 75$
$-3 + 1 = -2$	$-2 * -1 = 2$	$75 * 0 = 0$
$-2 - -13 = 11$	$2 + 7 = 9$	$0 + -2 = -2$
$11 * -4 = -44$	$9 * 1 = 9$	$-2 * -1 = 2$
$-44 * 2 = -88$	$9 : 3 = 3$	$2 + -6 = -4$
$-88 + -19 = -107$	$3 * 2 = 6$	$-4 : 2 = -2$
$-107 + 8 = -99$	$6 * 2 = 12$	$-2 + 4 = 2$
$-99 * -1 = 99$	$12 : 6 = 2$	$2 * -1 = -2$
$99 : 11 = 9$	$2 * -1 = -2$	$-2 * 3 = -6$
$9 : 3 = 3$	$-2 : 2 = -1$	$-6 + -3 = -9$
$3 : 3 = 1$	$-1 + 14 = 13$	$-9 : 9 = -1$
$1 + -9 = -8$	$13 * -2 = -26$	$-1 - -13 = 12$
$-8 : 2 = -4$	$-26 + 8 = -18$	$12 : 2 = 6$
$-4 * -4 = 16$	$-18 + -16 = -34$	$6 * 4 = 24$
$16 : 2 = 8$	$-34 + -15 = -49$	$24 - 8 = 16$
$8 + -8 = 0$	$-49 : 7 = -7$	
	$16 + 4 = 20$	

Kopfrechnen mittel(42)

$16 - -16 = 32$	$18 * 3 = 54$	$23 + 19 = 42$
$32 - 16 = 16$	$54 - -12 = 66$	$42 - -5 = 47$
$16 * 5 = 80$	$66 : 11 = 6$	$47 - -2 = 49$
$80 * -4 = -320$	$6 * -4 = -24$	$49 + 2 = 51$
$-320 + 20 = -300$	$-24 + -9 = -33$	$51 * 5 = 255$
$-300 + -4 = -304$	$-33 : 11 = -3$	$255 * 0 = 0$
$-304 : 8 = -38$	$-3 - -13 = 10$	$0 + 10 = 10$
$-38 : 2 = -19$	$10 + 2 = 12$	$10 + -2 = 8$
$-19 * -3 = 57$	$12 - -19 = 31$	$8 + -19 = -11$
$57 - -15 = 72$	$31 + 5 = 36$	$-11 + -3 = -14$
$72 - 3 = 69$	$36 + 13 = 49$	$-14 : 7 = -2$
$69 : 3 = 23$	$49 : 7 = 7$	$-2 + 12 = 10$
$23 * 3 = 69$	$7 + -3 = 4$	$10 * -1 = -10$
$69 : 3 = 23$	$4 * 1 = 4$	$-10 * 5 = -50$
$23 * -2 = -46$	$4 + -16 = -12$	$-50 + -8 = -58$
$-46 : 2 = -23$	$-12 - -16 = 4$	$-58 * -1 = 58$
$-23 + 4 = -19$	$4 : 2 = 2$	$58 * -3 = -174$
$-19 * -4 = 76$	$2 : 2 = 1$	$-174 : 3 = -58$
$76 + -6 = 70$	$1 - -16 = 17$	$-58 + -17 = -75$
$70 + -2 = 68$	$17 * -1 = -17$	$-75 * 5 = -375$
$68 - 7 = 61$	$-17 * -3 = 51$	$-375 + -7 = -382$
$61 + -18 = 43$	$51 - -7 = 58$	$-382 * -3 = 1146$
$43 * -2 = -86$	$58 - -7 = 65$	$1146 : 2 = 573$
$-86 + 15 = -71$	$65 : 13 = 5$	$573 * 2 = 1146$
$-71 + 1 = -70$	$5 * 1 = 5$	$1146 - 3 = 1143$
$-70 * -2 = 140$	$5 : 5 = 1$	$1143 : 3 = 381$
$140 * -4 = -560$	$1 * 1 = 1$	$381 : 3 = 127$
$-560 * -2 = 1120$	$1 * 2 = 2$	$127 + 15 = 142$
$1120 + -4 = 1116$	$2 + -19 = -17$	$142 * 1 = 142$
$1116 - -6 = 1122$	$-17 + 17 = 0$	$142 + -8 = 134$
$1122 * 2 = 2244$	$0 + -14 = -14$	$134 - -4 = 138$
$2244 - -8 = 2252$	$-14 : 2 = -7$	$138 - -12 = 150$
$2252 : 2 = 1126$	$-7 : 7 = -1$	$150 - 0 = 150$
$1126 - -5 = 1131$	$-1 + 2 = 1$	$150 + 20 = 170$
$1131 : 13 = 87$	$1 - -8 = 9$	$170 - -9 = 179$
$87 - 2 = 85$	$9 + -9 = 0$	$179 + -11 = 168$
$85 - 2 = 83$	$0 + -5 = -5$	$168 : 2 = 84$
$83 + 1 = 84$	$-5 - -6 = 1$	
	$17 - -6 = 23$	

Kopfrechnen mittel(43)

$4 * -1 = -4$	$16 * -4 = -64$	$2 + 12 = 14$
$-4 * -3 = 12$	$-64 + 9 = -55$	$14 + 3 = 17$
$12 * 4 = 48$	$-55 + 9 = -46$	$17 + -8 = 9$
$48 - -19 = 67$	$-46 * -2 = 92$	$9 + -6 = 3$
$67 - 18 = 49$	$92 * -4 = -368$	$3 - -13 = 16$
$49 * 3 = 147$	$-368 + 6 = -362$	$16 + -19 = -3$
$147 * 2 = 294$	$-362 + 14 = -348$	$-3 * -2 = 6$
$294 + -5 = 289$	$-348 * 0 = 0$	$6 + 5 = 11$
$289 - 15 = 274$	$0 + -16 = -16$	$11 * 2 = 22$
$274 - -8 = 282$	$-16 : 2 = -8$	$22 + 4 = 26$
$282 + 19 = 301$	$-8 * 0 = 0$	$26 + 0 = 26$
$301 - -5 = 306$	$0 + -12 = -12$	$26 + 6 = 32$
$306 * -3 = -918$	$-12 + -19 = -31$	$32 - 2 = 30$
$-918 + -12 = -930$	$-31 + 2 = -29$	$30 + 9 = 39$
$-930 * 1 = -930$	$-29 * -2 = 58$	$39 * -1 = -39$
$-930 + -13 = -943$	$58 + 11 = 69$	$-39 * 0 = 0$
$-943 * 1 = -943$	$69 + -2 = 67$	$0 + -14 = -14$
$-943 + -11 = -954$	$67 * -2 = -134$	$-14 + 10 = -4$
$-954 * 1 = -954$	$-134 + -19 = -153$	$-4 + 0 = -4$
$-954 : 2 = -477$	$-153 * 3 = -459$	$-4 * 1 = -4$
$-477 * -4 = 1908$	$-459 + 4 = -455$	$-4 + -7 = -11$
$1908 * 3 = 5724$	$-455 * 3 = -1365$	$-11 * 4 = -44$
$5724 * 4 = 22896$	$-1365 * 0 = 0$	$-44 * 5 = -220$
$22896 - -11 = 22907$	$0 + -5 = -5$	$-220 * -2 = 440$
$22907 + -16 = 22891$	$-5 * 1 = -5$	$440 * -1 = -440$
$22891 - -2 = 22893$	$-5 : 5 = -1$	$-440 : 4 = -110$
$22893 : 13 = 1761$	$-1 * 0 = 0$	$-110 + -16 = -126$
$1761 : 3 = 587$	$0 + 19 = 19$	$-126 : 7 = -18$
$587 * 5 = 2935$	$19 - -11 = 30$	$-18 : 2 = -9$
$2935 * 4 = 11740$	$30 * -1 = -30$	$-9 + -8 = -17$
$11740 - 11 = 11729$	$-30 * -1 = 30$	$-17 + -10 = -27$
$11729 * -2 = -23458$	$30 : 3 = 10$	$-27 * 2 = -54$
$-23458 * 3 = -70374$	$10 : 10 = 1$	$-54 : 6 = -9$
$-70374 * 4 = -281496$	$1 + 16 = 17$	$-9 * -3 = 27$
$-281496 * 2 = -562992$	$17 + 14 = 31$	$27 : 3 = 9$
$-562992 + 0 = -562992$	$31 * 3 = 93$	$9 - -3 = 12$
$-562992 : 3 = -187664$	$93 * 4 = 372$	$12 : 6 = 2$
$-187664 * -2 = 375328$	$372 * -4 = -1488$	
	$7 - 5 = 2$	

Kopfrechnen mittel(44)

$20 - 9 = 11$	$17 - 16 = 1$	$4 * 5 = 20$
$11 - 7 = 4$	$1 + 11 = 12$	$20 : 2 = 10$
$4 - -2 = 6$	$12 + -5 = 7$	$10 + 9 = 19$
$6 * 2 = 12$	$7 + 13 = 20$	$19 + -4 = 15$
$12 + -19 = -7$	$20 : 4 = 5$	$15 - -3 = 18$
$-7 + 5 = -2$	$5 : 5 = 1$	$18 : 6 = 3$
$-2 : 2 = -1$	$1 + 4 = 5$	$3 - -16 = 19$
$-1 * 2 = -2$	$5 - -18 = 23$	$19 - 19 = 0$
$-2 + -15 = -17$	$23 - -10 = 33$	$0 + -4 = -4$
$-17 + -13 = -30$	$33 * -2 = -66$	$-4 * -1 = 4$
$-30 + 8 = -22$	$-66 * 0 = 0$	$4 + 8 = 12$
$-22 + -18 = -40$	$0 + -10 = -10$	$12 - -15 = 27$
$-40 * 0 = 0$	$-10 + 19 = 9$	$27 + -2 = 25$
$0 + -11 = -11$	$9 + 16 = 25$	$25 - 9 = 16$
$-11 * 0 = 0$	$25 - 5 = 20$	$16 * -4 = -64$
$0 + -13 = -13$	$20 * -2 = -40$	$-64 + 11 = -53$
$-13 * -3 = 39$	$-40 + 11 = -29$	$-53 + 9 = -44$
$39 * 1 = 39$	$-29 + 13 = -16$	$-44 + 16 = -28$
$39 - -16 = 55$	$-16 : 4 = -4$	$-28 + 19 = -9$
$55 : 11 = 5$	$-4 : 2 = -2$	$-9 : 3 = -3$
$5 * -2 = -10$	$-2 + -19 = -21$	$-3 * -4 = 12$
$-10 + -14 = -24$	$-21 * 4 = -84$	$12 - -5 = 17$
$-24 + -1 = -25$	$-84 : 3 = -28$	$17 * 5 = 85$
$-25 + -12 = -37$	$-28 * -2 = 56$	$85 + -6 = 79$
$-37 + 15 = -22$	$56 * 5 = 280$	$79 * -1 = -79$
$-22 + 13 = -9$	$280 : 5 = 56$	$-79 * 3 = -237$
$-9 : 9 = -1$	$56 : 2 = 28$	$-237 : 3 = -79$
$-1 * 1 = -1$	$28 - 14 = 14$	$-79 + -14 = -93$
$-1 - -9 = 8$	$14 * 2 = 28$	$-93 : 3 = -31$
$8 : 2 = 4$	$28 + 9 = 37$	$-31 * -2 = 62$
$4 : 4 = 1$	$37 * 4 = 148$	$62 + -12 = 50$
$1 + 4 = 5$	$148 + -15 = 133$	$50 - 2 = 48$
$5 + 13 = 18$	$133 - -3 = 136$	$48 * 4 = 192$
$18 + -15 = 3$	$136 : 2 = 68$	$192 : 4 = 48$
$3 + -4 = -1$	$68 - -14 = 82$	$48 + 11 = 59$
$-1 + 14 = 13$	$82 : 2 = 41$	$59 - 4 = 55$
$13 + -9 = 4$	$41 - -6 = 47$	$55 + 12 = 67$
$4 + 18 = 22$	$47 - 4 = 43$	
	$14 - 10 = 4$	

Kopfrechnen mittel(45)

$7 - -12 = 19$	$10 * -1 = -10$	$20 + 2 = 22$
$19 - -9 = 28$	$-10 * 0 = 0$	$22 + 12 = 34$
$28 - -6 = 34$	$0 + 8 = 8$	$34 - 12 = 22$
$34 : 2 = 17$	$8 + -15 = -7$	$22 + -11 = 11$
$17 + 10 = 27$	$-7 * 1 = -7$	$11 - -14 = 25$
$27 + -1 = 26$	$-7 + 19 = 12$	$25 - -5 = 30$
$26 - -12 = 38$	$12 + -6 = 6$	$30 : 10 = 3$
$38 : 2 = 19$	$6 : 6 = 1$	$3 * 3 = 9$
$19 - -15 = 34$	$1 * -2 = -2$	$9 : 9 = 1$
$34 + -1 = 33$	$-2 - -18 = 16$	$1 + -7 = -6$
$33 * 5 = 165$	$16 + -13 = 3$	$-6 : 2 = -3$
$165 * 1 = 165$	$3 + -14 = -11$	$-3 - -11 = 8$
$165 - 18 = 147$	$-11 + -13 = -24$	$8 : 4 = 2$
$147 + 12 = 159$	$-24 + 2 = -22$	$2 : 2 = 1$
$159 * 3 = 477$	$-22 : 2 = -11$	$1 * -4 = -4$
$477 * 2 = 954$	$-11 * 5 = -55$	$-4 + 7 = 3$
$954 * -1 = -954$	$-55 * -3 = 165$	$3 + 11 = 14$
$-954 * -1 = 954$	$165 * 5 = 825$	$14 + -12 = 2$
$954 * -1 = -954$	$825 - 0 = 825$	$2 + 5 = 7$
$-954 : 9 = -106$	$825 * -3 = -2475$	$7 + 9 = 16$
$-106 + 7 = -99$	$-2475 + -7 = -2482$	$16 * 5 = 80$
$-99 * -3 = 297$	$-2482 * -2 = 4964$	$80 * 0 = 0$
$297 - 5 = 292$	$4964 + -2 = 4962$	$0 + 15 = 15$
$292 * -3 = -876$	$4962 - 0 = 4962$	$15 * 3 = 45$
$-876 * 0 = 0$	$4962 + -9 = 4953$	$45 + -3 = 42$
$0 + 1 = 1$	$4953 * 4 = 19812$	$42 + 17 = 59$
$1 + 7 = 8$	$19812 * 1 = 19812$	$59 * -3 = -177$
$8 : 4 = 2$	$19812 : 6 = 3302$	$-177 * -4 = 708$
$2 * 4 = 8$	$3302 - 14 = 3288$	$708 - 8 = 700$
$8 * -4 = -32$	$3288 - 9 = 3279$	$700 * 0 = 0$
$-32 * -2 = 64$	$3279 - -7 = 3286$	$0 + -1 = -1$
$64 * 5 = 320$	$3286 * 4 = 13144$	$-1 * -1 = 1$
$320 + 0 = 320$	$13144 - -16 = 13160$	$1 + 8 = 9$
$320 + -13 = 307$	$13160 : 5 = 2632$	$9 : 9 = 1$
$307 * 3 = 921$	$2632 * -2 = -5264$	$1 - -19 = 20$
$921 - 5 = 916$	$-5264 * 1 = -5264$	$20 : 10 = 2$
$916 * 4 = 3664$	$-5264 + -10 = -5274$	$2 * 1 = 2$
$3664 + 1 = 3665$	$-5274 * -2 = 10548$	
	$11 + 9 = 20$	

Kopfrechnen mittel(46)

$10 * -1 = -10$	$7 - 2 = 5$	$9 : 3 = 3$
$-10 : 2 = -5$	$5 : 5 = 1$	$3 + 19 = 22$
$-5 - -14 = 9$	$1 + -19 = -18$	$22 * 3 = 66$
$9 - -8 = 17$	$-18 + 4 = -14$	$66 * -1 = -66$
$17 * 4 = 68$	$-14 + -2 = -16$	$-66 * 0 = 0$
$68 : 4 = 17$	$-16 * 4 = -64$	$0 + -12 = -12$
$17 * -2 = -34$	$-64 : 2 = -32$	$-12 : 2 = -6$
$-34 * 3 = -102$	$-32 * -4 = 128$	$-6 + -19 = -25$
$-102 * 4 = -408$	$128 - 17 = 111$	$-25 + -1 = -26$
$-408 : 3 = -136$	$111 - -7 = 118$	$-26 + -1 = -27$
$-136 + 13 = -123$	$118 + 11 = 129$	$-27 * 4 = -108$
$-123 + 1 = -122$	$129 + 0 = 129$	$-108 + -11 = -119$
$-122 + 1 = -121$	$129 + -9 = 120$	$-119 + 11 = -108$
$-121 : 11 = -11$	$120 + 13 = 133$	$-108 + -7 = -115$
$-11 + 4 = -7$	$133 + -3 = 130$	$-115 : 5 = -23$
$-7 - -11 = 4$	$130 * -3 = -390$	$-23 * 4 = -92$
$4 : 4 = 1$	$-390 : 13 = -30$	$-92 + -19 = -111$
$1 + 17 = 18$	$-30 + 2 = -28$	$-111 + 2 = -109$
$18 * -2 = -36$	$-28 : 7 = -4$	$-109 * 0 = 0$
$-36 : 12 = -3$	$-4 + 0 = -4$	$0 + 20 = 20$
$-3 * -3 = 9$	$-4 - -16 = 12$	$20 : 10 = 2$
$9 * 0 = 0$	$12 + 0 = 12$	$2 + 9 = 11$
$0 + -13 = -13$	$12 + 15 = 27$	$11 * -2 = -22$
$-13 * 5 = -65$	$27 + -11 = 16$	$-22 + 2 = -20$
$-65 + -13 = -78$	$16 * 5 = 80$	$-20 : 4 = -5$
$-78 + 18 = -60$	$80 * -1 = -80$	$-5 - -12 = 7$
$-60 + -11 = -71$	$-80 * 0 = 0$	$7 : 7 = 1$
$-71 * -4 = 284$	$0 + -1 = -1$	$1 * -3 = -3$
$284 * -3 = -852$	$-1 - -15 = 14$	$-3 : 3 = -1$
$-852 * 1 = -852$	$14 + 8 = 22$	$-1 + 20 = 19$
$-852 * 2 = -1704$	$22 * 2 = 44$	$19 + 5 = 24$
$-1704 : 8 = -213$	$44 * 2 = 88$	$24 : 12 = 2$
$-213 + -19 = -232$	$88 : 11 = 8$	$2 - -15 = 17$
$-232 : 4 = -58$	$8 : 4 = 2$	$17 - -14 = 31$
$-58 + 8 = -50$	$2 * -1 = -2$	$31 - -16 = 47$
$-50 + -17 = -67$	$-2 - -13 = 11$	$47 * -1 = -47$
$-67 * 1 = -67$	$11 + -19 = -8$	$-47 + 6 = -41$
$-67 * -4 = 268$	$-8 : 8 = -1$	
	$1 - -8 = 9$	

Kopfrechnen mittel(47)

$5 - -8 = 13$	$1 * -2 = -2$	$-7 + 13 = 6$
$13 - -16 = 29$	$-2 + -18 = -20$	$6 : 6 = 1$
$29 * -4 = -116$	$-20 * 1 = -20$	$1 + 14 = 15$
$-116 + -16 = -132$	$-20 * 5 = -100$	$15 : 5 = 3$
$-132 : 2 = -66$	$-100 + -5 = -105$	$3 + -2 = 1$
$-66 + -15 = -81$	$-105 * -2 = 210$	$1 * 4 = 4$
$-81 + -18 = -99$	$210 - 3 = 207$	$4 + -4 = 0$
$-99 * 0 = 0$	$207 : 9 = 23$	$0 + 19 = 19$
$0 + 3 = 3$	$23 - -14 = 37$	$19 * 4 = 76$
$3 * 4 = 12$	$37 - 19 = 18$	$76 + 9 = 85$
$12 * 4 = 48$	$18 - 8 = 10$	$85 + -13 = 72$
$48 : 3 = 16$	$10 : 5 = 2$	$72 + 15 = 87$
$16 * 1 = 16$	$2 - -3 = 5$	$87 * -1 = -87$
$16 : 2 = 8$	$5 - -3 = 8$	$-87 + 12 = -75$
$8 + -17 = -9$	$8 + 18 = 26$	$-75 + -4 = -79$
$-9 + -15 = -24$	$26 : 2 = 13$	$-79 + 18 = -61$
$-24 + 4 = -20$	$13 * -2 = -26$	$-61 + -6 = -67$
$-20 * 0 = 0$	$-26 : 2 = -13$	$-67 + -6 = -73$
$0 + 6 = 6$	$-13 : 13 = -1$	$-73 + -19 = -92$
$6 : 3 = 2$	$-1 * 1 = -1$	$-92 * 0 = 0$
$2 : 2 = 1$	$-1 * 3 = -3$	$0 + 12 = 12$
$1 * 0 = 0$	$-3 * -3 = 9$	$12 + 2 = 14$
$0 + 18 = 18$	$9 : 3 = 3$	$14 * -2 = -28$
$18 - 7 = 11$	$3 * 4 = 12$	$-28 + 12 = -16$
$11 : 11 = 1$	$12 * 0 = 0$	$-16 : 2 = -8$
$1 * 2 = 2$	$0 + -7 = -7$	$-8 + -9 = -17$
$2 - -1 = 3$	$-7 + -12 = -19$	$-17 * 3 = -51$
$3 + 11 = 14$	$-19 * 5 = -95$	$-51 + 11 = -40$
$14 + -11 = 3$	$-95 + 6 = -89$	$-40 : 5 = -8$
$3 * 4 = 12$	$-89 * 2 = -178$	$-8 * 1 = -8$
$12 : 6 = 2$	$-178 : 2 = -89$	$-8 : 2 = -4$
$2 + 2 = 4$	$-89 + 16 = -73$	$-4 + -4 = -8$
$4 + -12 = -8$	$-73 * 5 = -365$	$-8 + 19 = 11$
$-8 : 2 = -4$	$-365 + -15 = -380$	$11 * 2 = 22$
$-4 + 17 = 13$	$-380 : 10 = -38$	$22 * -4 = -88$
$13 : 13 = 1$	$-38 * 4 = -152$	$-88 * -1 = 88$
$1 + 0 = 1$	$-152 * -2 = 304$	$88 + -11 = 77$
$1 + 12 = 13$	$304 : 8 = 38$	
	$7 * -1 = -7$	

Kopfrechnen mittel(48)

$16 * 2 = 32$	$10 - -4 = 14$	$21 : 7 = 3$
$32 - -13 = 45$	$14 - -7 = 21$	$3 - -3 = 6$
$45 - -19 = 64$	$21 : 3 = 7$	$6 : 6 = 1$
$64 - 11 = 53$	$7 + -3 = 4$	$1 + -15 = -14$
$53 + -3 = 50$	$4 : 4 = 1$	$-14 * -2 = 28$
$50 : 5 = 10$	$1 + 3 = 4$	$28 * -3 = -84$
$10 : 2 = 5$	$4 - -19 = 23$	$-84 + 11 = -73$
$5 : 5 = 1$	$23 * -1 = -23$	$-73 * -1 = 73$
$1 - -7 = 8$	$-23 * 4 = -92$	$73 - 15 = 58$
$8 * 3 = 24$	$-92 : 2 = -46$	$58 * 2 = 116$
$24 : 12 = 2$	$-46 * -2 = 92$	$116 + 0 = 116$
$2 - -5 = 7$	$92 + 1 = 93$	$116 * 4 = 464$
$7 - 6 = 1$	$93 + 3 = 96$	$464 * -1 = -464$
$1 + 13 = 14$	$96 : 8 = 12$	$-464 * 1 = -464$
$14 + 17 = 31$	$12 * -4 = -48$	$-464 : 2 = -232$
$31 * 4 = 124$	$-48 : 4 = -12$	$-232 + -16 = -248$
$124 + 6 = 130$	$-12 + -18 = -30$	$-248 : 4 = -62$
$130 * 4 = 520$	$-30 : 5 = -6$	$-62 * -2 = 124$
$520 : 2 = 260$	$-6 + -16 = -22$	$124 + 5 = 129$
$260 : 2 = 130$	$-22 + 20 = -2$	$129 + 8 = 137$
$130 : 5 = 26$	$-2 * 2 = -4$	$137 + 13 = 150$
$26 : 13 = 2$	$-4 : 2 = -2$	$150 - 3 = 147$
$2 : 2 = 1$	$-2 + 0 = -2$	$147 - -16 = 163$
$1 * 2 = 2$	$-2 : 2 = -1$	$163 - -16 = 179$
$2 * -2 = -4$	$-1 * 2 = -2$	$179 + -14 = 165$
$-4 * 2 = -8$	$-2 : 2 = -1$	$165 * -2 = -330$
$-8 * 1 = -8$	$-1 * -3 = 3$	$-330 * 5 = -1650$
$-8 + -17 = -25$	$3 - -10 = 13$	$-1650 + -8 = -1658$
$-25 * 2 = -50$	$13 + -17 = -4$	$-1658 * 0 = 0$
$-50 + -7 = -57$	$-4 : 2 = -2$	$0 + 1 = 1$
$-57 + -4 = -61$	$-2 + 9 = 7$	$1 * 1 = 1$
$-61 * 0 = 0$	$7 : 7 = 1$	$1 + -11 = -10$
$0 + -17 = -17$	$1 * 3 = 3$	$-10 + -10 = -20$
$-17 * -1 = 17$	$3 + 20 = 23$	$-20 * 1 = -20$
$17 + -3 = 14$	$23 + -9 = 14$	$-20 * 5 = -100$
$14 - -9 = 23$	$14 + 17 = 31$	$-100 * 3 = -300$
$23 - 20 = 3$	$31 * -1 = -31$	$-300 * 4 = -1200$
$3 + 16 = 19$	$-31 + 2 = -29$	
	$12 - -9 = 21$	

Kopfrechnen mittel(49)

$$9 - -12 = 21$$

$$21 - 18 = 3$$

$$3 + 7 = 10$$

$$10 * -2 = -20$$

$$-20 : 2 = -10$$

$$-10 - -12 = 2$$

$$2 + -17 = -15$$

$$-15 * 1 = -15$$

$$-15 + 17 = 2$$

$$2 + -7 = -5$$

$$-5 * -4 = 20$$

$$20 - -18 = 38$$

$$38 : 2 = 19$$

$$19 * -4 = -76$$

$$-76 * -2 = 152$$

$$152 * 2 = 304$$

$$304 + -16 = 288$$

$$288 - 3 = 285$$

$$285 : 5 = 57$$

$$57 * 5 = 285$$

$$285 - 3 = 282$$

$$282 - -19 = 301$$

$$301 - 12 = 289$$

$$289 - -12 = 301$$

$$301 * 1 = 301$$

$$301 + -4 = 297$$

$$297 * -2 = -594$$

$$-594 : 9 = -66$$

$$-66 * -1 = 66$$

$$66 - -17 = 83$$

$$83 * -1 = -83$$

$$-83 + 8 = -75$$

$$-75 + -4 = -79$$

$$-79 * 3 = -237$$

$$-237 * -2 = 474$$

$$474 + 7 = 481$$

$$481 + -2 = 479$$

$$479 * -1 = -479$$

$$20 : 10 = 2$$

$$2 * 0 = 0$$

$$0 + 15 = 15$$

$$15 - 8 = 7$$

$$7 - -13 = 20$$

$$20 : 10 = 2$$

$$2 + -4 = -2$$

$$-2 * -1 = 2$$

$$2 + 12 = 14$$

$$14 : 2 = 7$$

$$7 - -13 = 20$$

$$20 : 5 = 4$$

$$4 + 20 = 24$$

$$24 : 4 = 6$$

$$6 * -4 = -24$$

$$-24 + 8 = -16$$

$$-16 : 8 = -2$$

$$-2 + -7 = -9$$

$$-9 + 4 = -5$$

$$-5 - -15 = 10$$

$$10 * -4 = -40$$

$$-40 + 17 = -23$$

$$-23 * -4 = 92$$

$$92 - 13 = 79$$

$$79 - 4 = 75$$

$$75 + 19 = 94$$

$$94 + -19 = 75$$

$$75 : 3 = 25$$

$$25 : 5 = 5$$

$$5 * -2 = -10$$

$$-10 + -4 = -14$$

$$-14 * 4 = -56$$

$$-56 : 2 = -28$$

$$-28 + -10 = -38$$

$$-38 + 14 = -24$$

$$-24 * -2 = 48$$

$$48 + 16 = 64$$

$$64 + 18 = 82$$

$$9 : 3 = 3$$

$$3 * -2 = -6$$

$$-6 * 3 = -18$$

$$-18 * -4 = 72$$

$$72 * 1 = 72$$

$$72 * 2 = 144$$

$$144 : 8 = 18$$

$$18 * 5 = 90$$

$$90 * 5 = 450$$

$$450 - 7 = 443$$

$$443 * 5 = 2215$$

$$2215 - 10 = 2205$$

$$2205 - 8 = 2197$$

$$2197 : 13 = 169$$

$$169 - -2 = 171$$

$$171 - -3 = 174$$

$$174 * -4 = -696$$

$$-696 : 6 = -116$$

$$-116 : 4 = -29$$

$$-29 + 13 = -16$$

$$-16 * 0 = 0$$

$$0 + 9 = 9$$

$$9 * -4 = -36$$

$$-36 + 20 = -16$$

$$-16 * -3 = 48$$

$$48 - 1 = 47$$

$$47 + -11 = 36$$

$$36 : 12 = 3$$

$$3 - -6 = 9$$

$$9 : 9 = 1$$

$$1 * -1 = -1$$

$$-1 + 12 = 11$$

$$11 + 18 = 29$$

$$29 + 11 = 40$$

$$40 - 18 = 22$$

$$22 - 7 = 15$$

$$15 - -1 = 16$$

$$16 + 9 = 25$$

Kopfrechnen mittel(50)

$2 - -9 = 11$	$6 * 5 = 30$	$1 + -6 = -5$
$11 : 11 = 1$	$30 + 8 = 38$	$-5 * 4 = -20$
$1 * 5 = 5$	$38 : 2 = 19$	$-20 : 5 = -4$
$5 : 5 = 1$	$19 * -1 = -19$	$-4 : 4 = -1$
$1 + 4 = 5$	$-19 + 7 = -12$	$-1 - -12 = 11$
$5 + 13 = 18$	$-12 : 3 = -4$	$11 + -18 = -7$
$18 - 16 = 2$	$-4 : 2 = -2$	$-7 * 1 = -7$
$2 : 2 = 1$	$-2 : 2 = -1$	$-7 * 1 = -7$
$1 * -4 = -4$	$-1 + 18 = 17$	$-7 * 4 = -28$
$-4 : 2 = -2$	$17 * -4 = -68$	$-28 : 2 = -14$
$-2 * 4 = -8$	$-68 * -4 = 272$	$-14 * -1 = 14$
$-8 - -12 = 4$	$272 : 8 = 34$	$14 * 2 = 28$
$4 : 4 = 1$	$34 * 0 = 0$	$28 * 4 = 112$
$1 - -13 = 14$	$0 + -2 = -2$	$112 : 2 = 56$
$14 * 1 = 14$	$-2 + -12 = -14$	$56 * 3 = 168$
$14 + -6 = 8$	$-14 * -1 = 14$	$168 * 0 = 0$
$8 - -19 = 27$	$14 + 14 = 28$	$0 + 18 = 18$
$27 + -12 = 15$	$28 - 11 = 17$	$18 : 6 = 3$
$15 * 0 = 0$	$17 * 3 = 51$	$3 : 3 = 1$
$0 + 18 = 18$	$51 + -18 = 33$	$1 + 3 = 4$
$18 - 3 = 15$	$33 - 15 = 18$	$4 : 4 = 1$
$15 : 3 = 5$	$18 : 6 = 3$	$1 - -7 = 8$
$5 - -11 = 16$	$3 * 1 = 3$	$8 * -3 = -24$
$16 * 4 = 64$	$3 * -2 = -6$	$-24 + 11 = -13$
$64 + -14 = 50$	$-6 : 2 = -3$	$-13 + -2 = -15$
$50 * 5 = 250$	$-3 : 3 = -1$	$-15 + -9 = -24$
$250 : 10 = 25$	$-1 * 0 = 0$	$-24 : 6 = -4$
$25 - -5 = 30$	$0 + 15 = 15$	$-4 + -1 = -5$
$30 * 1 = 30$	$15 + 0 = 15$	$-5 * -1 = 5$
$30 + -7 = 23$	$15 : 3 = 5$	$5 * 5 = 25$
$23 + -19 = 4$	$5 - 1 = 4$	$25 + -9 = 16$
$4 + -10 = -6$	$4 : 2 = 2$	$16 * -4 = -64$
$-6 * -1 = 6$	$2 * -1 = -2$	$-64 * -4 = 256$
$6 + -3 = 3$	$-2 : 2 = -1$	$256 - -15 = 271$
$3 + -3 = 0$	$-1 + 2 = 1$	$271 * 1 = 271$
$0 + 2 = 2$	$1 * 0 = 0$	$271 + -3 = 268$
$2 - -16 = 18$	$0 + -9 = -9$	$268 + -5 = 263$
$18 - -13 = 31$	$-9 * 4 = -36$	
	$3 : 3 = 1$	

Kopfrechnen mittel(51)

$6 : 2 = 3$	$1 + 17 = 18$	$2 * 4 = 8$
$3 - -11 = 14$	$18 : 9 = 2$	$8 : 2 = 4$
$14 + 16 = 30$	$2 : 2 = 1$	$4 + -12 = -8$
$30 + 16 = 46$	$1 + 13 = 14$	$-8 : 2 = -4$
$46 : 2 = 23$	$14 + 10 = 24$	$-4 * 4 = -16$
$23 - 9 = 14$	$24 - -2 = 26$	$-16 * -2 = 32$
$14 + 10 = 24$	$26 - 14 = 12$	$32 - 4 = 28$
$24 : 8 = 3$	$12 + 18 = 30$	$28 * 0 = 0$
$3 * 0 = 0$	$30 - -4 = 34$	$0 + 12 = 12$
$0 + 17 = 17$	$34 * -1 = -34$	$12 * 4 = 48$
$17 * -4 = -68$	$-34 * -3 = 102$	$48 : 3 = 16$
$-68 : 4 = -17$	$102 : 3 = 34$	$16 - 16 = 0$
$-17 + -7 = -24$	$34 * -2 = -68$	$0 + -9 = -9$
$-24 : 2 = -12$	$-68 : 2 = -34$	$-9 : 3 = -3$
$-12 : 3 = -4$	$-34 : 2 = -17$	$-3 : 3 = -1$
$-4 + 14 = 10$	$-17 + 19 = 2$	$-1 + -15 = -16$
$10 : 10 = 1$	$2 * 3 = 6$	$-16 * 3 = -48$
$1 + 9 = 10$	$6 - -1 = 7$	$-48 + -11 = -59$
$10 + -1 = 9$	$7 + -3 = 4$	$-59 * 0 = 0$
$9 + 11 = 20$	$4 * -3 = -12$	$0 + 19 = 19$
$20 : 4 = 5$	$-12 * 4 = -48$	$19 - 4 = 15$
$5 + 1 = 6$	$-48 + -17 = -65$	$15 * -2 = -30$
$6 : 3 = 2$	$-65 * -2 = 130$	$-30 + -14 = -44$
$2 : 2 = 1$	$130 + 3 = 133$	$-44 : 2 = -22$
$1 + -3 = -2$	$133 - 6 = 127$	$-22 * 5 = -110$
$-2 - -6 = 4$	$127 - -13 = 140$	$-110 * -3 = 330$
$4 : 4 = 1$	$140 : 10 = 14$	$330 * -2 = -660$
$1 + 14 = 15$	$14 : 2 = 7$	$-660 * 4 = -2640$
$15 - -7 = 22$	$7 * 1 = 7$	$-2640 * 5 = -13200$
$22 * -1 = -22$	$7 + 18 = 25$	$-13200 : 4 = -3300$
$-22 : 11 = -2$	$25 - -18 = 43$	$-3300 * 4 = -13200$
$-2 : 2 = -1$	$43 - -17 = 60$	$-13200 * 1 = -13200$
$-1 * 0 = 0$	$60 : 2 = 30$	$-13200 * -4 = 52800$
$0 + 14 = 14$	$30 - 11 = 19$	$52800 : 6 = 8800$
$14 + -15 = -1$	$19 - 6 = 13$	$8800 * -1 = -8800$
$-1 * 2 = -2$	$13 + 0 = 13$	$-8800 + -15 = -8815$
$-2 * 1 = -2$	$13 : 13 = 1$	$-8815 : 5 = -1763$
$-2 + -19 = -21$	$1 - -7 = 8$	
	$10 - 8 = 2$	

Kopfrechnen mittel(52)

$17 - -9 = 26$	$17 * 4 = 68$	$34 - -16 = 50$
$26 - 19 = 7$	$68 : 4 = 17$	$50 * -3 = -150$
$7 : 7 = 1$	$17 + 20 = 37$	$-150 * 4 = -600$
$1 + 19 = 20$	$37 * 5 = 185$	$-600 + -1 = -601$
$20 : 2 = 10$	$185 + 8 = 193$	$-601 * 2 = -1202$
$10 : 2 = 5$	$193 - 15 = 178$	$-1202 + 14 = -1188$
$5 * -2 = -10$	$178 * 4 = 712$	$-1188 : 2 = -594$
$-10 + -10 = -20$	$712 : 8 = 89$	$-594 : 3 = -198$
$-20 * 2 = -40$	$89 + 19 = 108$	$-198 + -15 = -213$
$-40 : 5 = -8$	$108 * 2 = 216$	$-213 : 3 = -71$
$-8 + 8 = 0$	$216 : 8 = 27$	$-71 + -12 = -83$
$0 + 19 = 19$	$27 * -3 = -81$	$-83 + 18 = -65$
$19 * -2 = -38$	$-81 + 7 = -74$	$-65 + -8 = -73$
$-38 : 2 = -19$	$-74 + -1 = -75$	$-73 + 4 = -69$
$-19 + 5 = -14$	$-75 : 5 = -15$	$-69 + -2 = -71$
$-14 * -1 = 14$	$-15 : 5 = -3$	$-71 * 5 = -355$
$14 * -1 = -14$	$-3 * 4 = -12$	$-355 : 5 = -71$
$-14 * -1 = 14$	$-12 * 2 = -24$	$-71 * -2 = 142$
$14 * 2 = 28$	$-24 : 6 = -4$	$142 - 4 = 138$
$28 + -15 = 13$	$-4 + -13 = -17$	$138 + -17 = 121$
$13 + 17 = 30$	$-17 * 3 = -51$	$121 - -13 = 134$
$30 : 5 = 6$	$-51 * 0 = 0$	$134 - 3 = 131$
$6 - -19 = 25$	$0 + -8 = -8$	$131 * -4 = -524$
$25 - 20 = 5$	$-8 : 4 = -2$	$-524 + -19 = -543$
$5 * -3 = -15$	$-2 - -16 = 14$	$-543 + -19 = -562$
$-15 + 7 = -8$	$14 + -1 = 13$	$-562 + -2 = -564$
$-8 : 4 = -2$	$13 - -1 = 14$	$-564 : 2 = -282$
$-2 + -13 = -15$	$14 : 7 = 2$	$-282 : 3 = -94$
$-15 + -18 = -33$	$2 * 0 = 0$	$-94 : 2 = -47$
$-33 * 2 = -66$	$0 + -10 = -10$	$-47 * -3 = 141$
$-66 * 2 = -132$	$-10 * 4 = -40$	$141 + -16 = 125$
$-132 + -2 = -134$	$-40 + 5 = -35$	$125 + 15 = 140$
$-134 * 1 = -134$	$-35 * -1 = 35$	$140 + 17 = 157$
$-134 + 10 = -124$	$35 : 7 = 5$	$157 - -19 = 176$
$-124 * 5 = -620$	$5 * 4 = 20$	$176 + 6 = 182$
$-620 + -17 = -637$	$20 * 0 = 0$	$182 + -9 = 173$
$-637 * -4 = 2548$	$0 + -19 = -19$	$173 + -11 = 162$
$2548 - 10 = 2538$	$-19 + 5 = -14$	
	$17 * 2 = 34$	

Kopfrechnen mittel(53)

$18 * 3 = 54$	$15 + 4 = 19$	$-2 - -3 = 1$
$54 * -1 = -54$	$19 + -18 = 1$	$1 * -1 = -1$
$-54 : 3 = -18$	$1 + 14 = 15$	$-1 * 3 = -3$
$-18 : 3 = -6$	$15 * 5 = 75$	$-3 + 7 = 4$
$-6 - -14 = 8$	$75 : 3 = 25$	$4 : 2 = 2$
$8 : 4 = 2$	$25 * -4 = -100$	$2 + 12 = 14$
$2 + 9 = 11$	$-100 + 2 = -98$	$14 * 4 = 56$
$11 - 0 = 11$	$-98 + 13 = -85$	$56 : 7 = 8$
$11 - -16 = 27$	$-85 : 5 = -17$	$8 + 13 = 21$
$27 : 9 = 3$	$-17 * 0 = 0$	$21 * 5 = 105$
$3 - -11 = 14$	$0 + -11 = -11$	$105 + 5 = 110$
$14 + 3 = 17$	$-11 * -1 = 11$	$110 - -14 = 124$
$17 - -7 = 24$	$11 * -1 = -11$	$124 - -17 = 141$
$24 + 2 = 26$	$-11 + 10 = -1$	$141 + 6 = 147$
$26 - 13 = 13$	$-1 * -4 = 4$	$147 : 7 = 21$
$13 * 0 = 0$	$4 + 4 = 8$	$21 : 7 = 3$
$0 + 6 = 6$	$8 : 2 = 4$	$3 : 3 = 1$
$6 + -11 = -5$	$4 : 4 = 1$	$1 + 3 = 4$
$-5 - -14 = 9$	$1 + 17 = 18$	$4 - -17 = 21$
$9 + -1 = 8$	$18 * -3 = -54$	$21 + -10 = 11$
$8 * 1 = 8$	$-54 + -16 = -70$	$11 : 11 = 1$
$8 + 7 = 15$	$-70 + 2 = -68$	$1 * 0 = 0$
$15 : 5 = 3$	$-68 + -2 = -70$	$0 + 17 = 17$
$3 * -1 = -3$	$-70 + -10 = -80$	$17 * 5 = 85$
$-3 + 4 = 1$	$-80 + 6 = -74$	$85 * -2 = -170$
$1 + 15 = 16$	$-74 * -1 = 74$	$-170 : 10 = -17$
$16 + 6 = 22$	$74 * 4 = 296$	$-17 + 12 = -5$
$22 : 11 = 2$	$296 * 2 = 592$	$-5 : 5 = -1$
$2 : 2 = 1$	$592 + -18 = 574$	$-1 * 5 = -5$
$1 + 5 = 6$	$574 * 3 = 1722$	$-5 + 16 = 11$
$6 - -6 = 12$	$1722 - -7 = 1729$	$11 - -14 = 25$
$12 - -3 = 15$	$1729 - -19 = 1748$	$25 : 5 = 5$
$15 + -17 = -2$	$1748 - 10 = 1738$	$5 : 5 = 1$
$-2 * 2 = -4$	$1738 + 12 = 1750$	$1 * -4 = -4$
$-4 + -15 = -19$	$1750 : 5 = 350$	$-4 * -1 = 4$
$-19 + 7 = -12$	$350 + 14 = 364$	$4 + 7 = 11$
$-12 * 5 = -60$	$364 * -1 = -364$	$11 - -10 = 21$
$-60 : 5 = -12$	$-364 + 15 = -349$	
	$2 + -4 = -2$	

Kopfrechnen mittel(54)

$19 + 13 = 32$	$15 : 5 = 3$	$2 : 2 = 1$
$32 * 5 = 160$	$3 + 13 = 16$	$1 + 19 = 20$
$160 + 5 = 165$	$16 + -16 = 0$	$20 - 17 = 3$
$165 * 1 = 165$	$0 + -13 = -13$	$3 : 3 = 1$
$165 + -11 = 154$	$-13 : 13 = -1$	$1 + -17 = -16$
$154 - -14 = 168$	$-1 + 15 = 14$	$-16 + 8 = -8$
$168 : 6 = 28$	$14 : 2 = 7$	$-8 + 14 = 6$
$28 * -2 = -56$	$7 : 7 = 1$	$6 + 12 = 18$
$-56 : 4 = -14$	$1 + 3 = 4$	$18 + 5 = 23$
$-14 - -17 = 3$	$4 * 4 = 16$	$23 * -4 = -92$
$3 + 0 = 3$	$16 + -19 = -3$	$-92 * -1 = 92$
$3 + 17 = 20$	$-3 + -13 = -16$	$92 - 18 = 74$
$20 * -4 = -80$	$-16 * 5 = -80$	$74 + -17 = 57$
$-80 * 2 = -160$	$-80 * 1 = -80$	$57 * -3 = -171$
$-160 : 4 = -40$	$-80 * -2 = 160$	$-171 + 8 = -163$
$-40 * 2 = -80$	$160 : 8 = 20$	$-163 + -13 = -176$
$-80 + -12 = -92$	$20 * 0 = 0$	$-176 + -16 = -192$
$-92 * -1 = 92$	$0 + 18 = 18$	$-192 * 1 = -192$
$92 + -15 = 77$	$18 : 9 = 2$	$-192 : 2 = -96$
$77 : 7 = 11$	$2 + 9 = 11$	$-96 + 14 = -82$
$11 * 2 = 22$	$11 * 5 = 55$	$-82 * -2 = 164$
$22 * 0 = 0$	$55 : 11 = 5$	$164 - -3 = 167$
$0 + -14 = -14$	$5 - 3 = 2$	$167 + 19 = 186$
$-14 : 2 = -7$	$2 + 20 = 22$	$186 - 13 = 173$
$-7 + -5 = -12$	$22 - -4 = 26$	$173 - 13 = 160$
$-12 + 19 = 7$	$26 * -2 = -52$	$160 : 5 = 32$
$7 - -19 = 26$	$-52 : 13 = -4$	$32 : 4 = 8$
$26 + -5 = 21$	$-4 : 2 = -2$	$8 * -2 = -16$
$21 - 17 = 4$	$-2 * 0 = 0$	$-16 + 12 = -4$
$4 - -13 = 17$	$0 + 20 = 20$	$-4 * 2 = -8$
$17 * 5 = 85$	$20 - 8 = 12$	$-8 : 2 = -4$
$85 + 5 = 90$	$12 : 4 = 3$	$-4 * 4 = -16$
$90 * -2 = -180$	$3 + -13 = -10$	$-16 + -6 = -22$
$-180 * -2 = 360$	$-10 + -12 = -22$	$-22 * -4 = 88$
$360 + -8 = 352$	$-22 : 2 = -11$	$88 : 8 = 11$
$352 * 0 = 0$	$-11 * 0 = 0$	$11 * 1 = 11$
$0 + -17 = -17$	$0 + -19 = -19$	$11 * 4 = 44$
$-17 * -4 = 68$	$-19 + 2 = -17$	
	$8 : 4 = 2$	

Kopfrechnen mittel(55)

$15 : 5 = 3$	$16 - -3 = 19$	$9 - 4 = 5$
$3 * -2 = -6$	$19 * 2 = 38$	$5 + 2 = 7$
$-6 : 2 = -3$	$38 - 14 = 24$	$7 * -2 = -14$
$-3 + 8 = 5$	$24 - -7 = 31$	$-14 * -2 = 28$
$5 - -1 = 6$	$31 - 1 = 30$	$28 + -14 = 14$
$6 + 19 = 25$	$30 * 0 = 0$	$14 * -1 = -14$
$25 : 5 = 5$	$0 + 13 = 13$	$-14 * 4 = -56$
$5 + 12 = 17$	$13 + -9 = 4$	$-56 + 10 = -46$
$17 - 14 = 3$	$4 : 4 = 1$	$-46 + 5 = -41$
$3 * -1 = -3$	$1 + 19 = 20$	$-41 * 0 = 0$
$-3 + 8 = 5$	$20 + 6 = 26$	$0 + 5 = 5$
$5 + 4 = 9$	$26 * 0 = 0$	$5 - -11 = 16$
$9 + 12 = 21$	$0 + 1 = 1$	$16 - 1 = 15$
$21 : 7 = 3$	$1 - -1 = 2$	$15 : 5 = 3$
$3 + 14 = 17$	$2 : 2 = 1$	$3 + 15 = 18$
$17 - -7 = 24$	$1 + 7 = 8$	$18 - 11 = 7$
$24 - -16 = 40$	$8 - -11 = 19$	$7 * 1 = 7$
$40 : 2 = 20$	$19 + 7 = 26$	$7 * 0 = 0$
$20 - 5 = 15$	$26 : 2 = 13$	$0 + -11 = -11$
$15 : 5 = 3$	$13 + -3 = 10$	$-11 * 5 = -55$
$3 * -4 = -12$	$10 + -11 = -1$	$-55 * -3 = 165$
$-12 + -16 = -28$	$-1 * -4 = 4$	$165 - -4 = 169$
$-28 * 1 = -28$	$4 * 3 = 12$	$169 : 13 = 13$
$-28 + 1 = -27$	$12 - -16 = 28$	$13 + 1 = 14$
$-27 + -10 = -37$	$28 : 4 = 7$	$14 : 7 = 2$
$-37 + -18 = -55$	$7 : 7 = 1$	$2 + -7 = -5$
$-55 + -2 = -57$	$1 * -2 = -2$	$-5 + -11 = -16$
$-57 * -2 = 114$	$-2 + -2 = -4$	$-16 * 3 = -48$
$114 - 14 = 100$	$-4 - -10 = 6$	$-48 + -5 = -53$
$100 + -10 = 90$	$6 + -5 = 1$	$-53 + 8 = -45$
$90 - -16 = 106$	$1 + 14 = 15$	$-45 + 0 = -45$
$106 : 2 = 53$	$15 * -2 = -30$	$-45 + 18 = -27$
$53 + 15 = 68$	$-30 * -3 = 90$	$-27 : 3 = -9$
$68 * 1 = 68$	$90 * 2 = 180$	$-9 + 1 = -8$
$68 + 4 = 72$	$180 - 11 = 169$	$-8 - -12 = 4$
$72 - -18 = 90$	$169 + 15 = 184$	$4 * -4 = -16$
$90 * 3 = 270$	$184 : 8 = 23$	$-16 * 3 = -48$
$270 - -1 = 271$	$23 + -17 = 6$	
	$1 + 8 = 9$	

Kopfrechnen mittel(56)

$5 : 5 = 1$	$9 * 0 = 0$	$10 * 3 = 30$
$1 + 19 = 20$	$0 + -12 = -12$	$30 + 15 = 45$
$20 * 0 = 0$	$-12 + -11 = -23$	$45 - 3 = 42$
$0 + -6 = -6$	$-23 * -1 = 23$	$42 : 7 = 6$
$-6 + 9 = 3$	$23 + -9 = 14$	$6 : 3 = 2$
$3 : 3 = 1$	$14 - -17 = 31$	$2 * -2 = -4$
$1 + -3 = -2$	$31 + 9 = 40$	$-4 - -12 = 8$
$-2 + 1 = -1$	$40 + -16 = 24$	$8 : 2 = 4$
$-1 + -1 = -2$	$24 * -2 = -48$	$4 + 17 = 21$
$-2 * -1 = 2$	$-48 + 6 = -42$	$21 - -4 = 25$
$2 - -3 = 5$	$-42 + -4 = -46$	$25 + -12 = 13$
$5 * 3 = 15$	$-46 * -2 = 92$	$13 : 13 = 1$
$15 + 18 = 33$	$92 : 4 = 23$	$1 * -3 = -3$
$33 : 11 = 3$	$23 * 3 = 69$	$-3 * 4 = -12$
$3 : 3 = 1$	$69 + -13 = 56$	$-12 + -1 = -13$
$1 + -7 = -6$	$56 * -1 = -56$	$-13 + -16 = -29$
$-6 + 19 = 13$	$-56 + -16 = -72$	$-29 * 4 = -116$
$13 * -4 = -52$	$-72 : 3 = -24$	$-116 * -3 = 348$
$-52 : 4 = -13$	$-24 * 0 = 0$	$348 : 12 = 29$
$-13 * -1 = 13$	$0 + 11 = 11$	$29 + -15 = 14$
$13 : 13 = 1$	$11 : 11 = 1$	$14 - -18 = 32$
$1 * 0 = 0$	$1 + -12 = -11$	$32 : 4 = 8$
$0 + 13 = 13$	$-11 * 5 = -55$	$8 - -5 = 13$
$13 + 12 = 25$	$-55 : 11 = -5$	$13 : 13 = 1$
$25 : 5 = 5$	$-5 : 5 = -1$	$1 - -9 = 10$
$5 * -4 = -20$	$-1 * -3 = 3$	$10 : 2 = 5$
$-20 + 17 = -3$	$3 * 1 = 3$	$5 * -2 = -10$
$-3 + 15 = 12$	$3 * 5 = 15$	$-10 - -15 = 5$
$12 - 0 = 12$	$15 * 0 = 0$	$5 + -2 = 3$
$12 - 3 = 9$	$0 + -12 = -12$	$3 - -9 = 12$
$9 : 3 = 3$	$-12 * -3 = 36$	$12 + 2 = 14$
$3 * 5 = 15$	$36 * -2 = -72$	$14 + 15 = 29$
$15 + 4 = 19$	$-72 : 8 = -9$	$29 * -4 = -116$
$19 - 19 = 0$	$-9 + 13 = 4$	$-116 : 2 = -58$
$0 + -8 = -8$	$4 : 4 = 1$	$-58 + -11 = -69$
$-8 * -4 = 32$	$1 - -15 = 16$	$-69 : 3 = -23$
$32 : 2 = 16$	$16 * 0 = 0$	$-23 + -4 = -27$
$16 : 4 = 4$	$0 + -14 = -14$	
	$16 - 6 = 10$	

Kopfrechnen mittel(57)

$5 - -15 = 20$	$9 + 18 = 27$	$-9 * 2 = -18$
$20 : 5 = 4$	$27 + -16 = 11$	$-18 : 3 = -6$
$4 - -3 = 7$	$11 + 4 = 15$	$-6 : 6 = -1$
$7 + -17 = -10$	$15 * 2 = 30$	$-1 + 5 = 4$
$-10 * -4 = 40$	$30 + 10 = 40$	$4 + 6 = 10$
$40 + -6 = 34$	$40 * -1 = -40$	$10 + 20 = 30$
$34 - -9 = 43$	$-40 : 2 = -20$	$30 : 10 = 3$
$43 + -2 = 41$	$-20 * 0 = 0$	$3 + 9 = 12$
$41 - 11 = 30$	$0 + -5 = -5$	$12 * -1 = -12$
$30 : 5 = 6$	$-5 + -2 = -7$	$-12 - -13 = 1$
$6 * -2 = -12$	$-7 + -15 = -22$	$1 - -6 = 7$
$-12 * 3 = -36$	$-22 + -16 = -38$	$7 * -1 = -7$
$-36 + -10 = -46$	$-38 : 2 = -19$	$-7 - -11 = 4$
$-46 * 1 = -46$	$-19 + 18 = -1$	$4 + -11 = -7$
$-46 + -9 = -55$	$-1 - -5 = 4$	$-7 : 7 = -1$
$-55 * -3 = 165$	$4 - 2 = 2$	$-1 + -17 = -18$
$165 - 13 = 152$	$2 * -1 = -2$	$-18 * -4 = 72$
$152 * 3 = 456$	$-2 * -3 = 6$	$72 + 8 = 80$
$456 * -1 = -456$	$6 : 6 = 1$	$80 + 17 = 97$
$-456 * 3 = -1368$	$1 * 2 = 2$	$97 - 12 = 85$
$-1368 * -1 = 1368$	$2 + 16 = 18$	$85 * 2 = 170$
$1368 : 9 = 152$	$18 : 6 = 3$	$170 - -6 = 176$
$152 : 8 = 19$	$3 + 0 = 3$	$176 * 5 = 880$
$19 - -16 = 35$	$3 * 3 = 9$	$880 - 15 = 865$
$35 : 7 = 5$	$9 + -7 = 2$	$865 * 0 = 0$
$5 * -2 = -10$	$2 : 2 = 1$	$0 + -12 = -12$
$-10 - -10 = 0$	$1 * -3 = -3$	$-12 + -9 = -21$
$0 + -17 = -17$	$-3 : 3 = -1$	$-21 * 2 = -42$
$-17 + 7 = -10$	$-1 * 3 = -3$	$-42 + 2 = -40$
$-10 + -10 = -20$	$-3 + -4 = -7$	$-40 + -19 = -59$
$-20 : 5 = -4$	$-7 * 2 = -14$	$-59 * -2 = 118$
$-4 * -4 = 16$	$-14 * 5 = -70$	$118 : 2 = 59$
$16 - 7 = 9$	$-70 * 0 = 0$	$59 - 12 = 47$
$9 + 4 = 13$	$0 + 6 = 6$	$47 + 1 = 48$
$13 + -4 = 9$	$6 - 4 = 2$	$48 * -1 = -48$
$9 + 4 = 13$	$2 * 4 = 8$	$-48 + -11 = -59$
$13 + 7 = 20$	$8 - -10 = 18$	$-59 * 1 = -59$
$20 + 10 = 30$	$18 + 5 = 23$	
	$3 * -3 = -9$	

Kopfrechnen mittel(58)

$1 + -9 = -8$	$2 + 8 = 10$	$-9 * 1 = -9$
$-8 * 4 = -32$	$10 + 0 = 10$	$-9 - -13 = 4$
$-32 * -2 = 64$	$10 + 6 = 16$	$4 + -4 = 0$
$64 + -19 = 45$	$16 + 20 = 36$	$0 + -2 = -2$
$45 : 9 = 5$	$36 + 9 = 45$	$-2 + -19 = -21$
$5 + -15 = -10$	$45 + -11 = 34$	$-21 + 6 = -15$
$-10 : 5 = -2$	$34 + 20 = 54$	$-15 : 5 = -3$
$-2 - -7 = 5$	$54 + -10 = 44$	$-3 + 1 = -2$
$5 : 5 = 1$	$44 + 13 = 57$	$-2 : 2 = -1$
$1 + -16 = -15$	$57 - -12 = 69$	$-1 * 5 = -5$
$-15 * 5 = -75$	$69 - -10 = 79$	$-5 * -2 = 10$
$-75 + -1 = -76$	$79 + 6 = 85$	$10 * -4 = -40$
$-76 : 2 = -38$	$85 - 4 = 81$	$-40 : 5 = -8$
$-38 + 7 = -31$	$81 - 14 = 67$	$-8 * -4 = 32$
$-31 + -10 = -41$	$67 * -1 = -67$	$32 + 4 = 36$
$-41 + -12 = -53$	$-67 * -3 = 201$	$36 + 12 = 48$
$-53 * -2 = 106$	$201 + -11 = 190$	$48 : 2 = 24$
$106 * -2 = -212$	$190 - 18 = 172$	$24 - -12 = 36$
$-212 : 4 = -53$	$172 : 2 = 86$	$36 - -4 = 40$
$-53 * -2 = 106$	$86 + 7 = 93$	$40 + -18 = 22$
$106 : 2 = 53$	$93 - -16 = 109$	$22 : 2 = 11$
$53 + -18 = 35$	$109 + 14 = 123$	$11 + 11 = 22$
$35 * 5 = 175$	$123 - -14 = 137$	$22 + -5 = 17$
$175 : 5 = 35$	$137 * -1 = -137$	$17 + -19 = -2$
$35 * 2 = 70$	$-137 + 9 = -128$	$-2 * 4 = -8$
$70 + 19 = 89$	$-128 + 17 = -111$	$-8 * 1 = -8$
$89 * -1 = -89$	$-111 * 3 = -333$	$-8 : 8 = -1$
$-89 + -18 = -107$	$-333 + 10 = -323$	$-1 + -2 = -3$
$-107 + 11 = -96$	$-323 * 2 = -646$	$-3 + 14 = 11$
$-96 + -15 = -111$	$-646 * -4 = 2584$	$11 * 2 = 22$
$-111 : 3 = -37$	$2584 * -1 = -2584$	$22 : 2 = 11$
$-37 + -13 = -50$	$-2584 + 4 = -2580$	$11 * 5 = 55$
$-50 + -2 = -52$	$-2580 : 12 = -215$	$55 * 2 = 110$
$-52 : 4 = -13$	$-215 * 2 = -430$	$110 + -17 = 93$
$-13 : 13 = -1$	$-430 + 11 = -419$	$93 * 1 = 93$
$-1 * -2 = 2$	$-419 * -2 = 838$	$93 - 10 = 83$
$2 * 1 = 2$	$838 : 2 = 419$	$83 * 1 = 83$
$2 : 2 = 1$	$419 + -8 = 411$	
	$9 * -1 = -9$	

Kopfrechnen mittel(59)

$11 + 3 = 14$	$17 + 2 = 19$	$4 : 4 = 1$
$14 + -13 = 1$	$19 + -15 = 4$	$1 * -4 = -4$
$1 + -12 = -11$	$4 : 2 = 2$	$-4 : 2 = -2$
$-11 * 1 = -11$	$2 - -4 = 6$	$-2 * 4 = -8$
$-11 * 4 = -44$	$6 + 12 = 18$	$-8 - -19 = 11$
$-44 : 11 = -4$	$18 + 12 = 30$	$11 + -12 = -1$
$-4 : 4 = -1$	$30 : 2 = 15$	$-1 - -1 = 0$
$-1 + 3 = 2$	$15 - -11 = 26$	$0 + 8 = 8$
$2 + 16 = 18$	$26 - 0 = 26$	$8 - -4 = 12$
$18 - -6 = 24$	$26 - -16 = 42$	$12 : 3 = 4$
$24 : 2 = 12$	$42 + 1 = 43$	$4 * 3 = 12$
$12 + 11 = 23$	$43 - 15 = 28$	$12 : 4 = 3$
$23 + -15 = 8$	$28 - 3 = 25$	$3 * -4 = -12$
$8 : 8 = 1$	$25 * 5 = 125$	$-12 : 4 = -3$
$1 * 4 = 4$	$125 - 4 = 121$	$-3 * 4 = -12$
$4 : 4 = 1$	$121 * -4 = -484$	$-12 : 6 = -2$
$1 * 0 = 0$	$-484 + 20 = -464$	$-2 - -18 = 16$
$0 + 11 = 11$	$-464 + 4 = -460$	$16 * -1 = -16$
$11 - -2 = 13$	$-460 : 2 = -230$	$-16 + 13 = -3$
$13 : 13 = 1$	$-230 * 3 = -690$	$-3 * 4 = -12$
$1 * -1 = -1$	$-690 : 3 = -230$	$-12 * 3 = -36$
$-1 * 1 = -1$	$-230 : 2 = -115$	$-36 * -3 = 108$
$-1 * 2 = -2$	$-115 : 5 = -23$	$108 + -13 = 95$
$-2 + -10 = -12$	$-23 * -3 = 69$	$95 * -3 = -285$
$-12 * -1 = 12$	$69 * 4 = 276$	$-285 : 5 = -57$
$12 * -1 = -12$	$276 : 3 = 92$	$-57 : 3 = -19$
$-12 * 3 = -36$	$92 - -17 = 109$	$-19 * 3 = -57$
$-36 : 12 = -3$	$109 - 6 = 103$	$-57 : 3 = -19$
$-3 + -2 = -5$	$103 - -5 = 108$	$-19 * -1 = 19$
$-5 + 7 = 2$	$108 + 11 = 119$	$19 * -1 = -19$
$2 + -3 = -1$	$119 + 3 = 122$	$-19 + -18 = -37$
$-1 * -1 = 1$	$122 + 14 = 136$	$-37 * -3 = 111$
$1 + -6 = -5$	$136 + -19 = 117$	$111 * 2 = 222$
$-5 * 2 = -10$	$117 : 13 = 9$	$222 - 11 = 211$
$-10 + -17 = -27$	$9 - 2 = 7$	$211 - 18 = 193$
$-27 * 5 = -135$	$7 * 4 = 28$	$193 - 12 = 181$
$-135 + 11 = -124$	$28 : 4 = 7$	$181 * -3 = -543$
$-124 + 1 = -123$	$7 - -6 = 13$	
	$16 : 4 = 4$	

Kopfrechnen mittel(60)

$2 + 11 = 13$	$19 - 15 = 4$	$16 * 1 = 16$
$13 * 1 = 13$	$4 : 4 = 1$	$16 - 4 = 12$
$13 + 19 = 32$	$1 * -3 = -3$	$12 * -4 = -48$
$32 - -12 = 44$	$-3 + 14 = 11$	$-48 * -2 = 96$
$44 : 4 = 11$	$11 * 2 = 22$	$96 + -13 = 83$
$11 + 0 = 11$	$22 - -5 = 27$	$83 - -13 = 96$
$11 + 2 = 13$	$27 + 14 = 41$	$96 * 1 = 96$
$13 + -3 = 10$	$41 + -1 = 40$	$96 : 8 = 12$
$10 : 2 = 5$	$40 : 10 = 4$	$12 : 3 = 4$
$5 - -6 = 11$	$4 : 2 = 2$	$4 - 0 = 4$
$11 - 2 = 9$	$2 + -16 = -14$	$4 + -13 = -9$
$9 * -4 = -36$	$-14 : 2 = -7$	$-9 : 3 = -3$
$-36 + 7 = -29$	$-7 : 7 = -1$	$-3 : 3 = -1$
$-29 + -17 = -46$	$-1 - -6 = 5$	$-1 + 20 = 19$
$-46 * -3 = 138$	$5 * 3 = 15$	$19 - -10 = 29$
$138 - 17 = 121$	$15 + 10 = 25$	$29 - 20 = 9$
$121 - -8 = 129$	$25 * 2 = 50$	$9 + 19 = 28$
$129 : 3 = 43$	$50 : 5 = 10$	$28 : 4 = 7$
$43 * -3 = -129$	$10 - -13 = 23$	$7 * 3 = 21$
$-129 + -16 = -145$	$23 + 5 = 28$	$21 - 2 = 19$
$-145 + -15 = -160$	$28 + -11 = 17$	$19 * 1 = 19$
$-160 + -7 = -167$	$17 * 4 = 68$	$19 + -18 = 1$
$-167 + -12 = -179$	$68 * 2 = 136$	$1 - -1 = 2$
$-179 + -4 = -183$	$136 * 5 = 680$	$2 * -2 = -4$
$-183 + 1 = -182$	$680 : 10 = 68$	$-4 * -4 = 16$
$-182 + -13 = -195$	$68 - -11 = 79$	$16 + -1 = 15$
$-195 + -3 = -198$	$79 - -9 = 88$	$15 + 18 = 33$
$-198 : 6 = -33$	$88 - -16 = 104$	$33 + -17 = 16$
$-33 + -4 = -37$	$104 - 19 = 85$	$16 - -9 = 25$
$-37 * 0 = 0$	$85 + -9 = 76$	$25 - -17 = 42$
$0 + 16 = 16$	$76 * -3 = -228$	$42 : 3 = 14$
$16 - -5 = 21$	$-228 : 6 = -38$	$14 : 2 = 7$
$21 * -3 = -63$	$-38 + -19 = -57$	$7 : 7 = 1$
$-63 * 1 = -63$	$-57 + -4 = -61$	$1 - -18 = 19$
$-63 + -18 = -81$	$-61 * -2 = 122$	$19 - -18 = 37$
$-81 + -6 = -87$	$122 : 2 = 61$	$37 * -3 = -111$
$-87 * 1 = -87$	$61 + -9 = 52$	$-111 + 16 = -95$
$-87 * 2 = -174$	$52 - 5 = 47$	
	$16 + 0 = 16$	

Kopfrechnen mittel(61)

$$\begin{aligned}16 + 11 &= 27 \\27 * 3 &= 81 \\81 - -18 &= 99 \\99 * -1 &= -99 \\-99 * -3 &= 297 \\297 : 3 &= 99 \\99 - 11 &= 88 \\88 - 6 &= 82 \\82 - -17 &= 99 \\99 + 10 &= 109 \\109 * -4 &= -436 \\-436 : 4 &= -109 \\-109 * 2 &= -218 \\-218 + -19 &= -237 \\-237 * 3 &= -711 \\-711 + 20 &= -691 \\-691 * 4 &= -2764 \\-2764 * 2 &= -5528 \\-5528 + -3 &= -5531 \\-5531 * 2 &= -11062 \\-11062 + -13 &= -11075 \\-11075 + 19 &= -11056 \\-11056 * 0 &= 0 \\0 + -2 &= -2 \\-2 + -12 &= -14 \\-14 * -4 &= 56 \\56 - -8 &= 64 \\64 - 6 &= 58 \\58 + -3 &= 55 \\55 * -3 &= -165 \\-165 * -2 &= 330 \\330 - -4 &= 334 \\334 - 19 &= 315 \\315 * -2 &= -630 \\-630 : 2 &= -315 \\-315 + -19 &= -334 \\-334 * -2 &= 668 \\668 * 3 &= 2004\end{aligned}$$

$$\begin{aligned}9 + 15 &= 24 \\24 + -19 &= 5 \\5 * -1 &= -5 \\-5 * -2 &= 10 \\10 - 7 &= 3 \\3 : 3 &= 1 \\1 - -17 &= 18 \\18 : 2 &= 9 \\9 - 0 &= 9 \\9 - 6 &= 3 \\3 * 2 &= 6 \\6 : 2 &= 3 \\3 + 12 &= 15 \\15 : 3 &= 5 \\5 - -2 &= 7 \\7 * -2 &= -14 \\-14 + 0 &= -14 \\-14 * 2 &= -28 \\-28 * 5 &= -140 \\-140 + 8 &= -132 \\-132 : 11 &= -12 \\-12 - -17 &= 5 \\5 + -3 &= 2 \\2 + 18 &= 20 \\20 - 13 &= 7 \\7 : 7 &= 1 \\1 - -2 &= 3 \\3 - -16 &= 19 \\19 + 13 &= 32 \\32 : 4 &= 8 \\8 * 1 &= 8 \\8 + -13 &= -5 \\-5 * 1 &= -5 \\-5 : 5 &= -1 \\-1 * 1 &= -1 \\-1 * -1 &= 1 \\1 - -13 &= 14 \\14 * 1 &= 14 \\19 + -9 &= 10\end{aligned}$$

$$\begin{aligned}10 - 9 &= 1 \\1 + 19 &= 20 \\20 - -2 &= 22 \\22 * -2 &= -44 \\-44 * -1 &= 44 \\44 * 3 &= 132 \\132 : 2 &= 66 \\66 + 0 &= 66 \\66 + 13 &= 79 \\79 + -14 &= 65 \\65 - 8 &= 57 \\57 - -12 &= 69 \\69 * 4 &= 276 \\276 - 20 &= 256 \\256 - -10 &= 266 \\266 + -13 &= 253 \\253 : 11 &= 23 \\23 + -14 &= 9 \\9 - -14 &= 23 \\23 + 9 &= 32 \\32 * -2 &= -64 \\-64 : 4 &= -16 \\-16 + 8 &= -8 \\-8 * 2 &= -16 \\-16 : 2 &= -8 \\-8 : 4 &= -2 \\-2 - -7 &= 5 \\5 + 17 &= 22 \\22 - -19 &= 41 \\41 + -14 &= 27 \\27 + -1 &= 26 \\26 - -6 &= 32 \\32 + 6 &= 38 \\38 - 15 &= 23 \\23 + 15 &= 38 \\38 + -10 &= 28 \\28 * 5 &= 140\end{aligned}$$

Kopfrechnen mittel(62)

$7 * -2 = -14$	$4 : 4 = 1$	$0 + 12 = 12$
$-14 * 3 = -42$	$1 - 1 = 0$	$12 + 10 = 22$
$-42 + 8 = -34$	$0 + -5 = -5$	$22 * 3 = 66$
$-34 : 2 = -17$	$-5 + -3 = -8$	$66 + -7 = 59$
$-17 + -8 = -25$	$-8 - -16 = 8$	$59 * 1 = 59$
$-25 * 0 = 0$	$8 : 2 = 4$	$59 * -4 = -236$
$0 + 8 = 8$	$4 + 18 = 22$	$-236 * -1 = 236$
$8 + 3 = 11$	$22 + -18 = 4$	$236 + -13 = 223$
$11 * -1 = -11$	$4 - 1 = 3$	$223 * -1 = -223$
$-11 + 20 = 9$	$3 * 5 = 15$	$-223 * -2 = 446$
$9 - 2 = 7$	$15 : 3 = 5$	$446 - -2 = 448$
$7 + 18 = 25$	$5 * -3 = -15$	$448 - 16 = 432$
$25 * 4 = 100$	$-15 : 5 = -3$	$432 - 15 = 417$
$100 - -19 = 119$	$-3 : 3 = -1$	$417 + -6 = 411$
$119 - 9 = 110$	$-1 - -1 = 0$	$411 * 4 = 1644$
$110 : 11 = 10$	$0 + -15 = -15$	$1644 - 15 = 1629$
$10 * 4 = 40$	$-15 : 3 = -5$	$1629 : 3 = 543$
$40 + -15 = 25$	$-5 * -2 = 10$	$543 : 3 = 181$
$25 + 8 = 33$	$10 * 2 = 20$	$181 * -1 = -181$
$33 + 18 = 51$	$20 - 20 = 0$	$-181 + 7 = -174$
$51 * 3 = 153$	$0 + -19 = -19$	$-174 * -1 = 174$
$153 * 2 = 306$	$-19 + -18 = -37$	$174 : 2 = 87$
$306 : 6 = 51$	$-37 + 0 = -37$	$87 + -13 = 74$
$51 * -1 = -51$	$-37 + 9 = -28$	$74 + 4 = 78$
$-51 + 19 = -32$	$-28 + 20 = -8$	$78 - 11 = 67$
$-32 * 0 = 0$	$-8 * 3 = -24$	$67 * 4 = 268$
$0 + 2 = 2$	$-24 * 1 = -24$	$268 - -14 = 282$
$2 + -7 = -5$	$-24 * -4 = 96$	$282 + -11 = 271$
$-5 * 0 = 0$	$96 : 8 = 12$	$271 - -11 = 282$
$0 + 1 = 1$	$12 * 3 = 36$	$282 + 10 = 292$
$1 - -9 = 10$	$36 * 1 = 36$	$292 - 4 = 288$
$10 + 18 = 28$	$36 + -5 = 31$	$288 : 4 = 72$
$28 : 7 = 4$	$31 * 3 = 93$	$72 * -1 = -72$
$4 - -15 = 19$	$93 - -7 = 100$	$-72 * -4 = 288$
$19 - -19 = 38$	$100 * -3 = -300$	$288 : 3 = 96$
$38 * 0 = 0$	$-300 + -13 = -313$	$96 + -16 = 80$
$0 + 16 = 16$	$-313 + -10 = -323$	$80 : 4 = 20$
$16 * -1 = -16$	$-323 + -17 = -340$	
	$10 * 0 = 0$	

Kopfrechnen mittel(63)

$7 + 3 = 10$	$11 : 11 = 1$	$5 * 4 = 20$
$10 + -12 = -2$	$1 * -3 = -3$	$20 * 2 = 40$
$-2 * 1 = -2$	$-3 + 18 = 15$	$40 - -11 = 51$
$-2 + -9 = -11$	$15 * 3 = 45$	$51 + -7 = 44$
$-11 - -11 = 0$	$45 + -6 = 39$	$44 - -15 = 59$
$0 + -6 = -6$	$39 + 6 = 45$	$59 - -13 = 72$
$-6 : 2 = -3$	$45 + -1 = 44$	$72 + 15 = 87$
$-3 * -3 = 9$	$44 - -8 = 52$	$87 * 4 = 348$
$9 : 9 = 1$	$52 + -14 = 38$	$348 - 5 = 343$
$1 - -6 = 7$	$38 + -17 = 21$	$343 * 1 = 343$
$7 : 7 = 1$	$21 - 5 = 16$	$343 * 2 = 686$
$1 * -4 = -4$	$16 + 18 = 34$	$686 * -1 = -686$
$-4 : 2 = -2$	$34 + -10 = 24$	$-686 : 7 = -98$
$-2 + 10 = 8$	$24 + -12 = 12$	$-98 + -1 = -99$
$8 - -4 = 12$	$12 * -3 = -36$	$-99 + -13 = -112$
$12 * -2 = -24$	$-36 + -1 = -37$	$-112 * 0 = 0$
$-24 : 2 = -12$	$-37 * 3 = -111$	$0 + -6 = -6$
$-12 : 3 = -4$	$-111 * 5 = -555$	$-6 + -9 = -15$
$-4 - -5 = 1$	$-555 + 10 = -545$	$-15 * -4 = 60$
$1 - -15 = 16$	$-545 + -15 = -560$	$60 : 6 = 10$
$16 * 0 = 0$	$-560 : 2 = -280$	$10 + -12 = -2$
$0 + -19 = -19$	$-280 + 13 = -267$	$-2 * 3 = -6$
$-19 + -5 = -24$	$-267 + 11 = -256$	$-6 * -2 = 12$
$-24 * -1 = 24$	$-256 + 16 = -240$	$12 - -19 = 31$
$24 + -1 = 23$	$-240 * 3 = -720$	$31 + 16 = 47$
$23 + 4 = 27$	$-720 * 0 = 0$	$47 - -13 = 60$
$27 * 1 = 27$	$0 + 18 = 18$	$60 * 2 = 120$
$27 + 15 = 42$	$18 : 6 = 3$	$120 * 2 = 240$
$42 + -7 = 35$	$3 * 0 = 0$	$240 + 4 = 244$
$35 * -1 = -35$	$0 + -15 = -15$	$244 + 18 = 262$
$-35 : 7 = -5$	$-15 + -1 = -16$	$262 : 2 = 131$
$-5 : 5 = -1$	$-16 * -1 = 16$	$131 - -11 = 142$
$-1 * -1 = 1$	$16 + 14 = 30$	$142 - -3 = 145$
$1 + -14 = -13$	$30 * 2 = 60$	$145 - 1 = 144$
$-13 : 13 = -1$	$60 + 6 = 66$	$144 - 6 = 138$
$-1 + -3 = -4$	$66 - -11 = 77$	$138 + -1 = 137$
$-4 - -17 = 13$	$77 - 18 = 59$	$137 * 4 = 548$
$13 + -9 = 4$	$59 - 13 = 46$	
	$15 : 3 = 5$	

Kopfrechnen mittel(64)

$6 - -14 = 20$	$14 + -16 = -2$	$1 * 1 = 1$
$20 : 10 = 2$	$-2 * -4 = 8$	$1 - -3 = 4$
$2 - 0 = 2$	$8 - 3 = 5$	$4 - -19 = 23$
$2 * 5 = 10$	$5 - 4 = 1$	$23 - -12 = 35$
$10 + 6 = 16$	$1 * 4 = 4$	$35 + -1 = 34$
$16 : 8 = 2$	$4 + -4 = 0$	$34 - -17 = 51$
$2 + 15 = 17$	$0 + 2 = 2$	$51 + -12 = 39$
$17 - -17 = 34$	$2 : 2 = 1$	$39 - -4 = 43$
$34 + 17 = 51$	$1 * -4 = -4$	$43 + 3 = 46$
$51 + -10 = 41$	$-4 - -11 = 7$	$46 : 2 = 23$
$41 + -19 = 22$	$7 * 0 = 0$	$23 - 0 = 23$
$22 * 4 = 88$	$0 + 9 = 9$	$23 - -6 = 29$
$88 * -1 = -88$	$9 * 3 = 27$	$29 + -4 = 25$
$-88 + 6 = -82$	$27 - 5 = 22$	$25 * 0 = 0$
$-82 * 4 = -328$	$22 * -4 = -88$	$0 + 20 = 20$
$-328 : 2 = -164$	$-88 : 11 = -8$	$20 : 5 = 4$
$-164 * 0 = 0$	$-8 : 4 = -2$	$4 * 5 = 20$
$0 + -8 = -8$	$-2 : 2 = -1$	$20 * 2 = 40$
$-8 : 8 = -1$	$-1 + 9 = 8$	$40 + 17 = 57$
$-1 * 0 = 0$	$8 : 8 = 1$	$57 + -15 = 42$
$0 + -10 = -10$	$1 * 3 = 3$	$42 + 2 = 44$
$-10 : 2 = -5$	$3 + 4 = 7$	$44 + 12 = 56$
$-5 * 5 = -25$	$7 * -1 = -7$	$56 : 2 = 28$
$-25 : 5 = -5$	$-7 * 2 = -14$	$28 - 20 = 8$
$-5 + -19 = -24$	$-14 : 7 = -2$	$8 : 4 = 2$
$-24 + 14 = -10$	$-2 - -18 = 16$	$2 * -1 = -2$
$-10 + 1 = -9$	$16 : 2 = 8$	$-2 * -3 = 6$
$-9 : 9 = -1$	$8 + 7 = 15$	$6 * 3 = 18$
$-1 * -2 = 2$	$15 : 3 = 5$	$18 - -1 = 19$
$2 + 16 = 18$	$5 + -17 = -12$	$19 * 0 = 0$
$18 - -8 = 26$	$-12 : 6 = -2$	$0 + -5 = -5$
$26 : 13 = 2$	$-2 * -1 = 2$	$-5 * 2 = -10$
$2 + -19 = -17$	$2 * 5 = 10$	$-10 * 1 = -10$
$-17 * 3 = -51$	$10 * -2 = -20$	$-10 + 15 = 5$
$-51 + -16 = -67$	$-20 + 11 = -9$	$5 + -3 = 2$
$-67 * -3 = 201$	$-9 : 9 = -1$	$2 + 20 = 22$
$201 * 4 = 804$	$-1 * 3 = -3$	$22 + -4 = 18$
$804 - 1 = 803$	$-3 + -4 = -7$	
	$7 : 7 = 1$	

Kopfrechnen mittel(65)

$$\begin{aligned}11 : 11 &= 1 \\1 + 17 &= 18 \\18 + 7 &= 25 \\25 * 2 &= 50 \\50 * 1 &= 50 \\50 + -4 &= 46 \\46 * -1 &= -46 \\-46 * -3 &= 138 \\138 * -4 &= -552 \\-552 * 2 &= -1104 \\-1104 + 3 &= -1101 \\-1101 + -17 &= -1118 \\-1118 + -18 &= -1136 \\-1136 * -1 &= 1136 \\1136 * 5 &= 5680 \\5680 + -10 &= 5670 \\5670 * 5 &= 28350 \\28350 * -3 &= -85050 \\-85050 + -7 &= -85057 \\-85057 : 7 &= -12151 \\-12151 + -7 &= -12158 \\-12158 : 2 &= -6079 \\-6079 * -3 &= 18237 \\18237 * 4 &= 72948 \\72948 * 4 &= 291792 \\291792 + 7 &= 291799 \\291799 + -19 &= 291780 \\291780 * 4 &= 1167120 \\1167120 + 16 &= 1167136 \\1167136 : 8 &= 145892 \\145892 : 2 &= 72946 \\72946 - -2 &= 72948 \\72948 * 3 &= 218844 \\218844 - 20 &= 218824 \\218824 : 8 &= 27353 \\27353 * 5 &= 136765 \\136765 * -3 &= -410295 \\-410295 * -3 &= 1230885\end{aligned}$$

$$\begin{aligned}5 + -10 &= -5 \\-5 + 19 &= 14 \\14 - -19 &= 33 \\33 : 11 &= 3 \\3 + 11 &= 14 \\14 * -1 &= -14 \\-14 + 7 &= -7 \\-7 * -3 &= 21 \\21 - -10 &= 31 \\31 * 5 &= 155 \\155 + 0 &= 155 \\155 + 2 &= 157 \\157 - -18 &= 175 \\175 : 5 &= 35 \\35 + 14 &= 49 \\49 - -4 &= 53 \\53 + 2 &= 55 \\55 + 14 &= 69 \\69 * -1 &= -69 \\-69 + -15 &= -84 \\-84 : 7 &= -12 \\-12 : 4 &= -3 \\-3 * -2 &= 6 \\6 : 2 &= 3 \\3 : 3 &= 1 \\1 * 4 &= 4 \\4 : 2 &= 2 \\2 + 14 &= 16 \\16 - -17 &= 33 \\33 * 2 &= 66 \\66 - -10 &= 76 \\76 : 2 &= 38 \\38 + 11 &= 49 \\49 - -8 &= 57 \\57 * 3 &= 171 \\171 * 2 &= 342 \\342 * -1 &= -342 \\-342 * 0 &= 0 \\18 - 13 &= 5\end{aligned}$$

$$\begin{aligned}5 - 3 &= 2 \\2 : 2 &= 1 \\1 * 1 &= 1 \\1 * -4 &= -4 \\-4 : 2 &= -2 \\-2 * 5 &= -10 \\-10 + 0 &= -10 \\-10 - -16 &= 6 \\6 + 16 &= 22 \\22 * 1 &= 22 \\22 : 11 &= 2 \\2 - -6 &= 8 \\8 - -17 &= 25 \\25 * 3 &= 75 \\75 : 5 &= 15 \\15 * 0 &= 0 \\0 + -19 &= -19 \\-19 + 16 &= -3 \\-3 + -19 &= -22 \\-22 : 2 &= -11 \\-11 + -6 &= -17 \\-17 * -1 &= 17 \\17 - 3 &= 14 \\14 : 7 &= 2 \\2 - -4 &= 6 \\6 + -10 &= -4 \\-4 + -10 &= -14 \\-14 + 2 &= -12 \\-12 + 15 &= 3 \\3 + -15 &= -12 \\-12 + -17 &= -29 \\-29 * 0 &= 0 \\0 + -15 &= -15 \\-15 + 15 &= 0 \\0 + 14 &= 14 \\14 : 2 &= 7 \\7 * -3 &= -21\end{aligned}$$

Kopfrechnen mittel(66)

$$\begin{aligned}8 * 2 &= 16 \\16 : 8 &= 2 \\2 : 2 &= 1 \\1 - -1 &= 2 \\2 * 2 &= 4 \\4 + -7 &= -3 \\-3 : 3 &= -1 \\-1 + -17 &= -18 \\-18 : 2 &= -9 \\-9 : 3 &= -3 \\-3 : 3 &= -1 \\-1 + 11 &= 10 \\10 * 3 &= 30 \\30 - 13 &= 17 \\17 + 5 &= 22 \\22 - 3 &= 19 \\19 * -3 &= -57 \\-57 * 0 &= 0 \\0 + -10 &= -10 \\-10 * -1 &= 10 \\10 : 10 &= 1 \\1 + -2 &= -1 \\-1 - -5 &= 4 \\4 : 4 &= 1 \\1 - -4 &= 5 \\5 : 5 &= 1 \\1 + -16 &= -15 \\-15 + -17 &= -32 \\-32 + -17 &= -49 \\-49 : 7 &= -7 \\-7 * 3 &= -21 \\-21 * 3 &= -63 \\-63 + -2 &= -65 \\-65 : 5 &= -13 \\-13 * -1 &= 13 \\13 + -4 &= 9 \\9 * -1 &= -9 \\-9 * -3 &= 27\end{aligned}$$

$$\begin{aligned}15 + -10 &= 5 \\5 * 5 &= 25 \\25 - 17 &= 8 \\8 * -2 &= -16 \\-16 + 5 &= -11 \\-11 + 10 &= -1 \\-1 + -2 &= -3 \\-3 + -10 &= -13 \\-13 + 5 &= -8 \\-8 + -13 &= -21 \\-21 + -2 &= -23 \\-23 + -15 &= -38 \\-38 : 2 &= -19 \\-19 + 4 &= -15 \\-15 * 1 &= -15 \\-15 * 3 &= -45 \\-45 : 5 &= -9 \\-9 + 15 &= 6 \\6 * -2 &= -12 \\-12 * -1 &= 12 \\12 - -1 &= 13 \\13 : 13 &= 1 \\1 - -9 &= 10 \\10 : 10 &= 1 \\1 * 0 &= 0 \\0 + 3 &= 3 \\3 * 5 &= 15 \\15 + 20 &= 35 \\35 * -4 &= -140 \\-140 : 2 &= -70 \\-70 * -2 &= 140 \\140 - 17 &= 123 \\123 - 0 &= 123 \\123 - 19 &= 104 \\104 * 1 &= 104 \\104 * -2 &= -208 \\-208 * 5 &= -1040 \\-1040 + 10 &= -1030 \\16 - 7 &= 9\end{aligned}$$

$$\begin{aligned}9 + 3 &= 12 \\12 + -5 &= 7 \\7 + -9 &= -2 \\-2 * 4 &= -8 \\-8 * 1 &= -8 \\-8 + 17 &= 9 \\9 : 9 &= 1 \\1 * 0 &= 0 \\0 + 13 &= 13 \\13 - -19 &= 32 \\32 - 6 &= 26 \\26 * -2 &= -52 \\-52 : 13 &= -4 \\-4 * -1 &= 4 \\4 * 3 &= 12 \\12 - -2 &= 14 \\14 - -14 &= 28 \\28 * 1 &= 28 \\28 : 4 &= 7 \\7 * 5 &= 35 \\35 + 7 &= 42 \\42 : 2 &= 21 \\21 - 14 &= 7 \\7 - -2 &= 9 \\9 * -3 &= -27 \\-27 * 5 &= -135 \\-135 * -1 &= 135 \\135 - 15 &= 120 \\120 * -2 &= -240 \\-240 * 3 &= -720 \\-720 + 1 &= -719 \\-719 * 5 &= -3595 \\-3595 * 4 &= -14380 \\-14380 : 5 &= -2876 \\-2876 + 3 &= -2873 \\-2873 + 7 &= -2866 \\-2866 + -1 &= -2867\end{aligned}$$

Kopfrechnen mittel(67)

$2 * 5 = 10$	$3 - -6 = 9$	$-2 + -11 = -13$
$10 * 0 = 0$	$9 - -14 = 23$	$-13 * 1 = -13$
$0 + -14 = -14$	$23 * 2 = 46$	$-13 * 0 = 0$
$-14 * -2 = 28$	$46 + -12 = 34$	$0 + 9 = 9$
$28 * 1 = 28$	$34 * -3 = -102$	$9 - -4 = 13$
$28 + 10 = 38$	$-102 : 2 = -51$	$13 + 4 = 17$
$38 * -2 = -76$	$-51 + -5 = -56$	$17 * 4 = 68$
$-76 + -3 = -79$	$-56 + 11 = -45$	$68 - -12 = 80$
$-79 + -13 = -92$	$-45 + 1 = -44$	$80 - -6 = 86$
$-92 : 4 = -23$	$-44 : 11 = -4$	$86 * 0 = 0$
$-23 * -3 = 69$	$-4 : 2 = -2$	$0 + -16 = -16$
$69 + 11 = 80$	$-2 * -4 = 8$	$-16 * 1 = -16$
$80 + -16 = 64$	$8 + 9 = 17$	$-16 + -10 = -26$
$64 + 5 = 69$	$17 + 8 = 25$	$-26 * 1 = -26$
$69 * 3 = 207$	$25 * 0 = 0$	$-26 : 13 = -2$
$207 - 16 = 191$	$0 + 1 = 1$	$-2 * 4 = -8$
$191 * 1 = 191$	$1 * 2 = 2$	$-8 + -10 = -18$
$191 * -3 = -573$	$2 + -5 = -3$	$-18 + -7 = -25$
$-573 : 3 = -191$	$-3 * 0 = 0$	$-25 * 0 = 0$
$-191 + -2 = -193$	$0 + 8 = 8$	$0 + -12 = -12$
$-193 + 1 = -192$	$8 : 8 = 1$	$-12 * 1 = -12$
$-192 + 8 = -184$	$1 * 4 = 4$	$-12 + 11 = -1$
$-184 + -13 = -197$	$4 + -17 = -13$	$-1 * 2 = -2$
$-197 + -17 = -214$	$-13 * -2 = 26$	$-2 * -4 = 8$
$-214 + -1 = -215$	$26 + -13 = 13$	$8 - -13 = 21$
$-215 * 4 = -860$	$13 * -3 = -39$	$21 * -4 = -84$
$-860 * -3 = 2580$	$-39 + -4 = -43$	$-84 : 4 = -21$
$2580 + 8 = 2588$	$-43 * -2 = 86$	$-21 + 4 = -17$
$2588 + -11 = 2577$	$86 - 7 = 79$	$-17 + -6 = -23$
$2577 : 3 = 859$	$79 - 11 = 68$	$-23 + -18 = -41$
$859 - 0 = 859$	$68 : 2 = 34$	$-41 * 1 = -41$
$859 + -12 = 847$	$34 + -16 = 18$	$-41 * 3 = -123$
$847 - 15 = 832$	$18 - -9 = 27$	$-123 * 3 = -369$
$832 + -6 = 826$	$27 : 3 = 9$	$-369 + 13 = -356$
$826 + 19 = 845$	$9 : 3 = 3$	$-356 : 4 = -89$
$845 - 16 = 829$	$3 * -4 = -12$	$-89 * 1 = -89$
$829 * -4 = -3316$	$-12 * 1 = -12$	$-89 * -4 = 356$
$-3316 : 4 = -829$	$-12 + 12 = 0$	
	$16 + -18 = -2$	

Kopfrechnen mittel(68)

$4 + 14 = 18$	$11 + -1 = 10$	$1 * 3 = 3$
$18 + 6 = 24$	$10 * 2 = 20$	$3 + 1 = 4$
$24 * -1 = -24$	$20 - 8 = 12$	$4 : 2 = 2$
$-24 + 3 = -21$	$12 - 11 = 1$	$2 : 2 = 1$
$-21 * -4 = 84$	$1 + 7 = 8$	$1 - -18 = 19$
$84 - 12 = 72$	$8 : 8 = 1$	$19 + 14 = 33$
$72 - 7 = 65$	$1 * 5 = 5$	$33 : 11 = 3$
$65 - 3 = 62$	$5 - -7 = 12$	$3 : 3 = 1$
$62 * 2 = 124$	$12 * -3 = -36$	$1 + -4 = -3$
$124 : 2 = 62$	$-36 * -2 = 72$	$-3 - -11 = 8$
$62 * -2 = -124$	$72 + 13 = 85$	$8 - 1 = 7$
$-124 + 20 = -104$	$85 + 13 = 98$	$7 * 1 = 7$
$-104 + 13 = -91$	$98 + 1 = 99$	$7 + -3 = 4$
$-91 * 5 = -455$	$99 * -3 = -297$	$4 + -7 = -3$
$-455 * 4 = -1820$	$-297 + 11 = -286$	$-3 * -1 = 3$
$-1820 : 5 = -364$	$-286 * -4 = 1144$	$3 : 3 = 1$
$-364 + -16 = -380$	$1144 - 15 = 1129$	$1 * 2 = 2$
$-380 * -3 = 1140$	$1129 * 3 = 3387$	$2 - -9 = 11$
$1140 * 0 = 0$	$3387 - -6 = 3393$	$11 : 11 = 1$
$0 + 12 = 12$	$3393 : 9 = 377$	$1 - -5 = 6$
$12 + 1 = 13$	$377 * 3 = 1131$	$6 * -4 = -24$
$13 - 1 = 12$	$1131 + 9 = 1140$	$-24 : 8 = -3$
$12 + -10 = 2$	$1140 * 1 = 1140$	$-3 - -8 = 5$
$2 * 0 = 0$	$1140 : 12 = 95$	$5 + -4 = 1$
$0 + 15 = 15$	$95 * 1 = 95$	$1 + 11 = 12$
$15 + 12 = 27$	$95 - -15 = 110$	$12 + 18 = 30$
$27 : 9 = 3$	$110 * -3 = -330$	$30 * 0 = 0$
$3 - -4 = 7$	$-330 * -1 = 330$	$0 + -5 = -5$
$7 : 7 = 1$	$330 + 3 = 333$	$-5 * -4 = 20$
$1 + -18 = -17$	$333 + -5 = 328$	$20 * 3 = 60$
$-17 * -2 = 34$	$328 - 1 = 327$	$60 : 5 = 12$
$34 : 2 = 17$	$327 + -5 = 322$	$12 : 12 = 1$
$17 * -2 = -34$	$322 - -17 = 339$	$1 * 1 = 1$
$-34 : 2 = -17$	$339 - 0 = 339$	$1 * 3 = 3$
$-17 + -16 = -33$	$339 - -17 = 356$	$3 * -1 = -3$
$-33 * 0 = 0$	$356 * 5 = 1780$	$-3 - -4 = 1$
$0 + 9 = 9$	$1780 + 20 = 1800$	$1 - 0 = 1$
$9 - -17 = 26$	$1800 + -4 = 1796$	
	$10 : 10 = 1$	

Kopfrechnen mittel(69)

$10 : 2 = 5$	$5 + -2 = 3$	$26 : 2 = 13$
$5 - -3 = 8$	$3 + 2 = 5$	$13 - -13 = 26$
$8 - 4 = 4$	$5 : 5 = 1$	$26 - -8 = 34$
$4 : 4 = 1$	$1 + 19 = 20$	$34 : 2 = 17$
$1 * 0 = 0$	$20 + -8 = 12$	$17 + -19 = -2$
$0 + -7 = -7$	$12 * -2 = -24$	$-2 + -18 = -20$
$-7 : 7 = -1$	$-24 + 4 = -20$	$-20 + 20 = 0$
$-1 * -3 = 3$	$-20 : 2 = -10$	$0 + -17 = -17$
$3 - -17 = 20$	$-10 : 5 = -2$	$-17 + 1 = -16$
$20 : 5 = 4$	$-2 + -7 = -9$	$-16 + -1 = -17$
$4 : 2 = 2$	$-9 + 18 = 9$	$-17 * 3 = -51$
$2 + -15 = -13$	$9 - 1 = 8$	$-51 + 20 = -31$
$-13 * -4 = 52$	$8 : 8 = 1$	$-31 * 1 = -31$
$52 * 3 = 156$	$1 + 4 = 5$	$-31 + 17 = -14$
$156 : 6 = 26$	$5 * 0 = 0$	$-14 : 7 = -2$
$26 - -16 = 42$	$0 + 0 = 0$	$-2 + 7 = 5$
$42 : 6 = 7$	$0 + -3 = -3$	$5 : 5 = 1$
$7 * 2 = 14$	$-3 : 3 = -1$	$1 + -6 = -5$
$14 + -17 = -3$	$-1 - -15 = 14$	$-5 + 9 = 4$
$-3 + -2 = -5$	$14 : 2 = 7$	$4 + -12 = -8$
$-5 * 2 = -10$	$7 : 7 = 1$	$-8 * -1 = 8$
$-10 * 0 = 0$	$1 + 2 = 3$	$8 * 0 = 0$
$0 + 12 = 12$	$3 * 2 = 6$	$0 + -7 = -7$
$12 - -4 = 16$	$6 + 4 = 10$	$-7 * 3 = -21$
$16 * -4 = -64$	$10 : 2 = 5$	$-21 + 2 = -19$
$-64 + 18 = -46$	$5 * 4 = 20$	$-19 * 2 = -38$
$-46 * -4 = 184$	$20 * -4 = -80$	$-38 * 5 = -190$
$184 + 11 = 195$	$-80 : 8 = -10$	$-190 + 6 = -184$
$195 - -19 = 214$	$-10 + 10 = 0$	$-184 * 5 = -920$
$214 + -13 = 201$	$0 + -3 = -3$	$-920 * 0 = 0$
$201 : 3 = 67$	$-3 : 3 = -1$	$0 + 9 = 9$
$67 - -18 = 85$	$-1 - -5 = 4$	$9 - -8 = 17$
$85 + 2 = 87$	$4 * 3 = 12$	$17 - 14 = 3$
$87 + 16 = 103$	$12 : 6 = 2$	$3 - -16 = 19$
$103 + 19 = 122$	$2 * 1 = 2$	$19 - 18 = 1$
$122 : 2 = 61$	$2 * 3 = 6$	$1 + 18 = 19$
$61 + -3 = 58$	$6 - 6 = 0$	$19 * 4 = 76$
$58 : 2 = 29$	$0 + -4 = -4$	
	$11 + 15 = 26$	

Kopfrechnen mittel(70)

$$\begin{aligned}6 : 6 &= 1 \\1 * -2 &= -2 \\-2 - -19 &= 17 \\17 * -1 &= -17 \\-17 + 5 &= -12 \\-12 + 4 &= -8 \\-8 : 2 &= -4 \\-4 + -14 &= -18 \\-18 * 3 &= -54 \\-54 * -2 &= 108 \\108 + -18 &= 90 \\90 : 5 &= 18 \\18 : 3 &= 6 \\6 * 2 &= 12 \\12 : 4 &= 3 \\3 : 3 &= 1 \\1 + 16 &= 17 \\17 * 4 &= 68 \\68 - -3 &= 71 \\71 - -12 &= 83 \\83 * 5 &= 415 \\415 - 17 &= 398 \\398 + -11 &= 387 \\387 + 10 &= 397 \\397 * 0 &= 0 \\0 + -1 &= -1 \\-1 - -2 &= 1 \\1 * 3 &= 3 \\3 : 3 &= 1 \\1 + -12 &= -11 \\-11 : 11 &= -1 \\-1 - -7 &= 6 \\6 : 6 &= 1 \\1 + -5 &= -4 \\-4 * 1 &= -4 \\-4 - -13 &= 9 \\9 + 19 &= 28 \\28 - -8 &= 36\end{aligned}$$

$$\begin{aligned}8 * 1 &= 8 \\8 : 8 &= 1 \\1 * 2 &= 2 \\2 : 2 &= 1 \\1 * -4 &= -4 \\-4 * -1 &= 4 \\4 : 4 &= 1 \\1 * -2 &= -2 \\-2 + 20 &= 18 \\18 - -8 &= 26 \\26 - -7 &= 33 \\33 * 5 &= 165 \\165 - 15 &= 150 \\150 : 10 &= 15 \\15 : 3 &= 5 \\5 : 5 &= 1 \\1 * 4 &= 4 \\4 + 0 &= 4 \\4 : 4 &= 1 \\1 - -3 &= 4 \\4 + -2 &= 2 \\2 * 1 &= 2 \\2 + 17 &= 19 \\19 * -1 &= -19 \\-19 + 1 &= -18 \\-18 + -9 &= -27 \\-27 * 0 &= 0 \\0 + -12 &= -12 \\-12 * -1 &= 12 \\12 : 6 &= 2 \\2 + 11 &= 13 \\13 + 14 &= 27 \\27 - 0 &= 27 \\27 * -1 &= -27 \\-27 * 0 &= 0 \\0 + -1 &= -1 \\-1 - -19 &= 18 \\18 - 0 &= 18 \\20 + 17 &= 37\end{aligned}$$

$$\begin{aligned}37 - 0 &= 37 \\37 * 3 &= 111 \\111 : 3 &= 37 \\37 - -4 &= 41 \\41 + -14 &= 27 \\27 * 5 &= 135 \\135 * -4 &= -540 \\-540 + 15 &= -525 \\-525 * -3 &= 1575 \\1575 - -17 &= 1592 \\1592 * 2 &= 3184 \\3184 * -1 &= -3184 \\-3184 : 8 &= -398 \\-398 * -1 &= 398 \\398 - 2 &= 396 \\396 + -17 &= 379 \\379 - -9 &= 388 \\388 - -2 &= 390 \\390 * 4 &= 1560 \\1560 : 13 &= 120 \\120 : 5 &= 24 \\24 + 4 &= 28 \\28 * 3 &= 84 \\84 - -7 &= 91 \\91 * 3 &= 273 \\273 : 3 &= 91 \\91 * 0 &= 0 \\0 + 2 &= 2 \\2 - -15 &= 17 \\17 * 3 &= 51 \\51 * 1 &= 51 \\51 + -5 &= 46 \\46 * -1 &= -46 \\-46 : 2 &= -23 \\-23 * 1 &= -23 \\-23 + 19 &= -4 \\-4 : 4 &= -1\end{aligned}$$

Kopfrechnen mittel(71)

$13 * -3 = -39$	$10 * 1 = 10$	$15 + 8 = 23$
$-39 + -8 = -47$	$10 + 3 = 13$	$23 * 0 = 0$
$-47 * -1 = 47$	$13 * -4 = -52$	$0 + -14 = -14$
$47 - 2 = 45$	$-52 : 2 = -26$	$-14 * -3 = 42$
$45 : 5 = 9$	$-26 + 20 = -6$	$42 * 0 = 0$
$9 : 3 = 3$	$-6 : 3 = -2$	$0 + 17 = 17$
$3 : 3 = 1$	$-2 : 2 = -1$	$17 - 12 = 5$
$1 + -2 = -1$	$-1 * -3 = 3$	$5 - -18 = 23$
$-1 - -8 = 7$	$3 + 4 = 7$	$23 * -2 = -46$
$7 : 7 = 1$	$7 : 7 = 1$	$-46 * -4 = 184$
$1 + -10 = -9$	$1 + -8 = -7$	$184 - -10 = 194$
$-9 * 5 = -45$	$-7 + 11 = 4$	$194 + 4 = 198$
$-45 : 3 = -15$	$4 + 16 = 20$	$198 : 9 = 22$
$-15 * -1 = 15$	$20 : 10 = 2$	$22 * 4 = 88$
$15 - 5 = 10$	$2 * 2 = 4$	$88 : 8 = 11$
$10 : 2 = 5$	$4 : 4 = 1$	$11 * 3 = 33$
$5 : 5 = 1$	$1 + 20 = 21$	$33 - 20 = 13$
$1 + -13 = -12$	$21 + -10 = 11$	$13 + 1 = 14$
$-12 + 3 = -9$	$11 : 11 = 1$	$14 : 2 = 7$
$-9 : 3 = -3$	$1 * 4 = 4$	$7 + -2 = 5$
$-3 - -9 = 6$	$4 - -9 = 13$	$5 : 5 = 1$
$6 * 3 = 18$	$13 : 13 = 1$	$1 + 13 = 14$
$18 : 2 = 9$	$1 + -4 = -3$	$14 * -2 = -28$
$9 + 1 = 10$	$-3 * 3 = -9$	$-28 * -2 = 56$
$10 : 2 = 5$	$-9 + -7 = -16$	$-28 * -2 = 56$
$5 * 1 = 5$	$-16 * 1 = -16$	$56 + 19 = 75$
$5 + -5 = 0$	$-16 + 16 = 0$	$75 + -6 = 69$
$0 + -3 = -3$	$0 + -10 = -10$	$69 - 10 = 59$
$-3 * 5 = -15$	$-10 - -12 = 2$	$59 - -2 = 61$
$-15 * 3 = -45$	$2 + -15 = -13$	$61 - 13 = 48$
$-45 : 9 = -5$	$-13 * 3 = -39$	$48 * -4 = -192$
$-5 * -3 = 15$	$-39 + -13 = -52$	$-192 : 6 = -32$
$15 - 11 = 4$	$-52 * 4 = -208$	$-32 * -1 = 32$
$4 + -1 = 3$	$-208 : 4 = -52$	$32 : 8 = 4$
$3 : 3 = 1$	$-52 + 16 = -36$	$4 : 4 = 1$
$1 + -10 = -9$	$-36 * -4 = 144$	$1 * 2 = 2$
$-9 - -13 = 4$	$144 * 5 = 720$	$2 * 1 = 2$
$4 + 11 = 15$	$720 * 3 = 2160$	$2 - -8 = 10$
	$3 - -12 = 15$	

Kopfrechnen mittel(72)

$2 - -19 = 21$	$4 : 4 = 1$	$15 - 12 = 3$
$21 : 7 = 3$	$1 - -11 = 12$	$3 * 3 = 9$
$3 + 15 = 18$	$12 - -11 = 23$	$9 + 11 = 20$
$18 + 7 = 25$	$23 - 19 = 4$	$20 * 4 = 80$
$25 + 20 = 45$	$4 : 4 = 1$	$80 - -19 = 99$
$45 * -4 = -180$	$1 - -3 = 4$	$99 : 3 = 33$
$-180 * 1 = -180$	$4 : 2 = 2$	$33 + -1 = 32$
$-180 : 12 = -15$	$2 + 10 = 12$	$32 : 2 = 16$
$-15 : 5 = -3$	$12 * -4 = -48$	$16 : 8 = 2$
$-3 * 4 = -12$	$-48 + 20 = -28$	$2 * -1 = -2$
$-12 : 6 = -2$	$-28 + 10 = -18$	$-2 - -12 = 10$
$-2 * -4 = 8$	$-18 : 3 = -6$	$10 : 10 = 1$
$8 * -4 = -32$	$-6 - -14 = 8$	$1 + 5 = 6$
$-32 + -11 = -43$	$8 - -12 = 20$	$6 : 2 = 3$
$-43 * -2 = 86$	$20 - 12 = 8$	$3 * -3 = -9$
$86 * 4 = 344$	$8 * 0 = 0$	$-9 - -10 = 1$
$344 + -7 = 337$	$0 + 18 = 18$	$1 + 20 = 21$
$337 + 0 = 337$	$18 * 5 = 90$	$21 - -9 = 30$
$337 - 13 = 324$	$90 : 6 = 15$	$30 - -10 = 40$
$324 + 5 = 329$	$15 : 3 = 5$	$40 - -12 = 52$
$329 * 1 = 329$	$5 + -8 = -3$	$52 : 4 = 13$
$329 * -2 = -658$	$-3 + 1 = -2$	$13 : 13 = 1$
$-658 * -1 = 658$	$-2 : 2 = -1$	$1 * 3 = 3$
$658 : 7 = 94$	$-1 + 9 = 8$	$3 * 2 = 6$
$94 * 3 = 282$	$8 - 4 = 4$	$6 - -15 = 21$
$282 - -5 = 287$	$4 * -4 = -16$	$21 : 3 = 7$
$287 - -3 = 290$	$-16 : 4 = -4$	$7 - -11 = 18$
$290 - 19 = 271$	$-4 * 1 = -4$	$18 : 2 = 9$
$271 + 12 = 283$	$-4 * 2 = -8$	$9 + -4 = 5$
$283 + -17 = 266$	$-8 * 5 = -40$	$5 : 5 = 1$
$266 : 2 = 133$	$-40 + -9 = -49$	$1 - -3 = 4$
$133 + 10 = 143$	$-49 : 7 = -7$	$4 - -19 = 23$
$143 : 13 = 11$	$-7 : 7 = -1$	$23 - 10 = 13$
$11 + -1 = 10$	$-1 - -11 = 10$	$13 * 2 = 26$
$10 * 3 = 30$	$10 * 4 = 40$	$26 - 7 = 19$
$30 + -10 = 20$	$40 + 16 = 56$	$19 + 17 = 36$
$20 - 0 = 20$	$56 - 12 = 44$	$36 : 6 = 6$
$20 - 5 = 15$	$44 * -1 = -44$	
	$1 - -14 = 15$	

Kopfrechnen mittel(73)

$20 - -19 = 39$	$11 : 11 = 1$	$-4 - -6 = 2$
$39 + 1 = 40$	$1 + -14 = -13$	$2 * 3 = 6$
$40 - 16 = 24$	$-13 : 13 = -1$	$6 - -14 = 20$
$24 : 6 = 4$	$-1 * -3 = 3$	$20 + 0 = 20$
$4 : 2 = 2$	$3 * 5 = 15$	$20 + 18 = 38$
$2 + -8 = -6$	$15 * 2 = 30$	$38 - -3 = 41$
$-6 + 7 = 1$	$30 : 3 = 10$	$41 * 4 = 164$
$1 - -18 = 19$	$10 + -15 = -5$	$164 * 4 = 656$
$19 * -4 = -76$	$-5 + -4 = -9$	$656 : 8 = 82$
$-76 * -4 = 304$	$-9 + -16 = -25$	$82 - -14 = 96$
$304 * -2 = -608$	$-25 * 1 = -25$	$96 : 2 = 48$
$-608 + 13 = -595$	$-25 + 17 = -8$	$48 + 1 = 49$
$-595 + 9 = -586$	$-8 * -4 = 32$	$49 * 3 = 147$
$-586 * -2 = 1172$	$32 : 8 = 4$	$147 - -17 = 164$
$1172 - 11 = 1161$	$4 * 0 = 0$	$164 : 4 = 41$
$1161 - 2 = 1159$	$0 + 14 = 14$	$41 * 3 = 123$
$1159 - -11 = 1170$	$14 + -7 = 7$	$123 * 5 = 615$
$1170 * 1 = 1170$	$7 - -18 = 25$	$615 : 5 = 123$
$1170 : 9 = 130$	$25 - 2 = 23$	$123 - -5 = 128$
$130 + -18 = 112$	$23 - 1 = 22$	$128 + 10 = 138$
$112 + -16 = 96$	$22 - -14 = 36$	$138 + -15 = 123$
$96 - -9 = 105$	$36 * 5 = 180$	$123 + 10 = 133$
$105 * 3 = 315$	$180 - 12 = 168$	$133 * 5 = 665$
$315 - 11 = 304$	$168 * -3 = -504$	$665 - 7 = 658$
$304 + -10 = 294$	$-504 * -3 = 1512$	$658 + 5 = 663$
$294 * 3 = 882$	$1512 - 5 = 1507$	$663 + 9 = 672$
$882 + -16 = 866$	$1507 + -9 = 1498$	$672 : 3 = 224$
$866 * -4 = -3464$	$1498 * 2 = 2996$	$224 : 8 = 28$
$-3464 * -2 = 6928$	$2996 + 1 = 2997$	$28 * -3 = -84$
$6928 : 8 = 866$	$2997 - 1 = 2996$	$-84 * 5 = -420$
$866 * -2 = -1732$	$2996 + -17 = 2979$	$-420 : 4 = -105$
$-1732 * 3 = -5196$	$2979 - 0 = 2979$	$-105 + -14 = -119$
$-5196 * -4 = 20784$	$2979 - -19 = 2998$	$-119 + -17 = -136$
$20784 + 11 = 20795$	$2998 + 19 = 3017$	$-136 * -4 = 544$
$20795 : 5 = 4159$	$3017 - 5 = 3012$	$544 + 17 = 561$
$4159 - -2 = 4161$	$3012 + 15 = 3027$	$561 - 6 = 555$
$4161 : 3 = 1387$	$3027 * 3 = 9081$	$555 - 8 = 547$
$1387 + -5 = 1382$	$9081 * -1 = -9081$	
	$1 * -4 = -4$	

Kopfrechnen mittel(74)

$12 - 7 = 5$	$16 : 2 = 8$	$2 + 0 = 2$
$5 - -16 = 21$	$8 * 0 = 0$	$2 * -3 = -6$
$21 - 13 = 8$	$0 + 12 = 12$	$-6 * 0 = 0$
$8 + -11 = -3$	$12 : 12 = 1$	$0 + -8 = -8$
$-3 + -9 = -12$	$1 * 5 = 5$	$-8 : 4 = -2$
$-12 * 4 = -48$	$5 : 5 = 1$	$-2 : 2 = -1$
$-48 : 12 = -4$	$1 - -4 = 5$	$-1 * -4 = 4$
$-4 - -15 = 11$	$5 * -1 = -5$	$4 + -16 = -12$
$11 - 6 = 5$	$-5 + 3 = -2$	$-12 : 12 = -1$
$5 : 5 = 1$	$-2 - -19 = 17$	$-1 - -18 = 17$
$1 - -12 = 13$	$17 + -6 = 11$	$17 - -15 = 32$
$13 + -9 = 4$	$11 + -3 = 8$	$32 : 2 = 16$
$4 * 4 = 16$	$8 : 2 = 4$	$16 * 5 = 80$
$16 - 12 = 4$	$4 : 4 = 1$	$80 : 4 = 20$
$4 + -5 = -1$	$1 + -4 = -3$	$20 - 20 = 0$
$-1 - -15 = 14$	$-3 * 2 = -6$	$0 + 7 = 7$
$14 - -16 = 30$	$-6 * 3 = -18$	$7 * 3 = 21$
$30 * -2 = -60$	$-18 + -14 = -32$	$21 - 10 = 11$
$-60 * 5 = -300$	$-32 : 2 = -16$	$11 * 0 = 0$
$-300 + 5 = -295$	$-16 * -3 = 48$	$0 + -19 = -19$
$-295 * -2 = 590$	$48 - 2 = 46$	$-19 * -3 = 57$
$590 * 0 = 0$	$46 + -17 = 29$	$57 - 6 = 51$
$0 + 13 = 13$	$29 * -1 = -29$	$51 * 0 = 0$
$13 : 13 = 1$	$-29 * 5 = -145$	$0 + 2 = 2$
$1 * 1 = 1$	$-145 * -1 = 145$	$2 * -2 = -4$
$1 - -3 = 4$	$145 * 5 = 725$	$-4 : 2 = -2$
$4 : 2 = 2$	$725 + 2 = 727$	$-2 * -3 = 6$
$2 * 5 = 10$	$727 + 20 = 747$	$6 * -4 = -24$
$10 * 2 = 20$	$747 + -14 = 733$	$-24 * 5 = -120$
$20 + 19 = 39$	$733 * -2 = -1466$	$-120 : 8 = -15$
$39 + 0 = 39$	$-1466 * -2 = 2932$	$-15 + 17 = 2$
$39 - -2 = 41$	$2932 - 7 = 2925$	$2 - -6 = 8$
$41 + 12 = 53$	$2925 - -10 = 2935$	$8 - -19 = 27$
$53 + -5 = 48$	$2935 - 1 = 2934$	$27 : 3 = 9$
$48 + 6 = 54$	$2934 - 6 = 2928$	$9 - -12 = 21$
$54 + 6 = 60$	$2928 : 12 = 244$	$21 * 4 = 84$
$60 - 14 = 46$	$244 : 2 = 122$	$84 * 1 = 84$
$46 - -11 = 57$	$122 * 5 = 610$	
	$2 - 0 = 2$	

Kopfrechnen mittel(75)

$10 : 2 = 5$	$12 + -1 = 11$	$6 : 6 = 1$
$5 : 5 = 1$	$11 * 0 = 0$	$1 + -5 = -4$
$1 * 3 = 3$	$0 + -10 = -10$	$-4 * -3 = 12$
$3 * 2 = 6$	$-10 : 2 = -5$	$12 * -2 = -24$
$6 - -18 = 24$	$-5 + 20 = 15$	$-24 + 14 = -10$
$24 : 3 = 8$	$15 * 1 = 15$	$-10 : 2 = -5$
$8 : 4 = 2$	$15 + -19 = -4$	$-5 * 4 = -20$
$2 - -2 = 4$	$-4 * -1 = 4$	$-20 * -4 = 80$
$4 * 1 = 4$	$4 - -18 = 22$	$80 : 4 = 20$
$4 : 2 = 2$	$22 * 3 = 66$	$20 : 2 = 10$
$2 * 4 = 8$	$66 - 12 = 54$	$10 * 1 = 10$
$8 * -1 = -8$	$54 - -10 = 64$	$10 + -10 = 0$
$-8 : 8 = -1$	$64 + 0 = 64$	$0 + 10 = 10$
$-1 * 4 = -4$	$64 + -12 = 52$	$10 - 3 = 7$
$-4 * 4 = -16$	$52 + 19 = 71$	$7 * 1 = 7$
$-16 : 8 = -2$	$71 + 12 = 83$	$7 + 20 = 27$
$-2 * -3 = 6$	$83 * -2 = -166$	$27 + -11 = 16$
$6 + -1 = 5$	$-166 + -5 = -171$	$16 + 8 = 24$
$5 + 13 = 18$	$-171 * -1 = 171$	$24 + 9 = 33$
$18 : 3 = 6$	$171 * 3 = 513$	$33 * -2 = -66$
$6 - -17 = 23$	$513 * -4 = -2052$	$-66 + -4 = -70$
$23 * 1 = 23$	$-2052 : 4 = -513$	$-70 : 2 = -35$
$23 * -2 = -46$	$-513 + 0 = -513$	$-35 + -9 = -44$
$-46 * 1 = -46$	$-513 * 5 = -2565$	$-44 + 1 = -43$
$-46 * 2 = -92$	$-2565 * -2 = 5130$	$-43 * -4 = 172$
$-92 * -2 = 184$	$5130 * -4 = -20520$	$172 : 2 = 86$
$184 * -1 = -184$	$-20520 + 5 = -20515$	$86 + -7 = 79$
$-184 + 17 = -167$	$-20515 + -9 = -20524$	$79 * -3 = -237$
$-167 * -4 = 668$	$-20524 * 5 = -102620$	$-237 + 9 = -228$
$668 : 2 = 334$	$-102620 + -19 = -102639$	$-228 + -1 = -229$
$334 - 12 = 322$	$-102639 + -19 = -102658$	$-229 * 2 = -458$
$322 - 4 = 318$	$-102658 + -3 = -102661$	$-458 + -18 = -476$
$318 + -14 = 304$	$-102661 * 0 = 0$	$-476 + -10 = -486$
$304 - 13 = 291$	$0 + 0 = 0$	$-486 * -2 = 972$
$291 - -15 = 306$	$0 + -10 = -10$	$972 : 3 = 324$
$306 : 6 = 51$	$-10 + 6 = -4$	$324 : 3 = 108$
$51 : 3 = 17$	$-4 + -14 = -18$	$108 * 1 = 108$
$17 - -19 = 36$	$-18 * -2 = 36$	
	$2 + 4 = 6$	

Kopfrechnen mittel(76)

$20 + 11 = 31$	$5 : 5 = 1$	$2 * 3 = 6$
$31 * 5 = 155$	$1 * 3 = 3$	$6 * 5 = 30$
$155 * -4 = -620$	$3 * -2 = -6$	$30 * -3 = -90$
$-620 + 19 = -601$	$-6 + 12 = 6$	$-90 : 9 = -10$
$-601 + 19 = -582$	$6 - -13 = 19$	$-10 * -4 = 40$
$-582 * 0 = 0$	$19 + -12 = 7$	$40 * 4 = 160$
$0 + -5 = -5$	$7 : 7 = 1$	$160 - 17 = 143$
$-5 + 15 = 10$	$1 * 3 = 3$	$143 : 11 = 13$
$10 * 1 = 10$	$3 * 2 = 6$	$13 + 2 = 15$
$10 + 2 = 12$	$6 : 6 = 1$	$15 + 4 = 19$
$12 + -17 = -5$	$1 + 2 = 3$	$19 - -7 = 26$
$-5 * 1 = -5$	$3 * 1 = 3$	$26 * -2 = -52$
$-5 + -13 = -18$	$3 : 3 = 1$	$-52 : 13 = -4$
$-18 : 3 = -6$	$1 * -4 = -4$	$-4 + -11 = -15$
$-6 + 2 = -4$	$-4 * 2 = -8$	$-15 * -4 = 60$
$-4 : 4 = -1$	$-8 * -4 = 32$	$60 + 15 = 75$
$-1 * 4 = -4$	$32 : 8 = 4$	$75 : 5 = 15$
$-4 * 4 = -16$	$4 * 3 = 12$	$15 + -4 = 11$
$-16 + -5 = -21$	$12 - -6 = 18$	$11 * -3 = -33$
$-21 : 7 = -3$	$18 - -11 = 29$	$-33 + 18 = -15$
$-3 + -6 = -9$	$29 - 8 = 21$	$-15 - -19 = 4$
$-9 : 9 = -1$	$21 : 3 = 7$	$4 * -1 = -4$
$-1 * -3 = 3$	$7 * -4 = -28$	$-4 : 2 = -2$
$3 : 3 = 1$	$-28 * 3 = -84$	$-2 + 7 = 5$
$1 - -5 = 6$	$-84 + -13 = -97$	$5 * -1 = -5$
$6 : 6 = 1$	$-97 * 4 = -388$	$-5 : 5 = -1$
$1 + -5 = -4$	$-388 * -1 = 388$	$-1 * 1 = -1$
$-4 * -4 = 16$	$388 - 3 = 385$	$-1 + 6 = 5$
$16 * -2 = -32$	$385 - -1 = 386$	$5 + 14 = 19$
$-32 * -2 = 64$	$386 * -2 = -772$	$19 * -1 = -19$
$64 - -10 = 74$	$-772 : 2 = -386$	$-19 * 2 = -38$
$74 - 17 = 57$	$-386 + 12 = -374$	$-38 * -3 = 114$
$57 : 3 = 19$	$-374 + -14 = -388$	$114 : 2 = 57$
$19 * 2 = 38$	$-388 + -10 = -398$	$57 + -15 = 42$
$38 * -2 = -76$	$-398 + 2 = -396$	$42 + 17 = 59$
$-76 : 4 = -19$	$-396 + 13 = -383$	$59 + 0 = 59$
$-19 * 3 = -57$	$-383 * -1 = 383$	$59 + -16 = 43$
$-57 : 3 = -19$	$383 * 5 = 1915$	
	$10 : 5 = 2$	

Kopfrechnen mittel(77)

$12 : 3 = 4$	$17 + -19 = -2$	$14 * 1 = 14$
$4 : 2 = 2$	$-2 * 3 = -6$	$14 * 1 = 14$
$2 + -15 = -13$	$-6 + 13 = 7$	$14 + 10 = 24$
$-13 + 17 = 4$	$7 + 5 = 12$	$24 : 6 = 4$
$4 : 4 = 1$	$12 - -18 = 30$	$4 : 2 = 2$
$1 * -4 = -4$	$30 : 3 = 10$	$2 : 2 = 1$
$-4 - -7 = 3$	$10 : 2 = 5$	$1 + 12 = 13$
$3 + 17 = 20$	$5 : 5 = 1$	$13 : 13 = 1$
$20 : 10 = 2$	$1 * 4 = 4$	$1 * 0 = 0$
$2 * -3 = -6$	$4 : 4 = 1$	$0 + -3 = -3$
$-6 * 3 = -18$	$1 + 5 = 6$	$-3 + 3 = 0$
$-18 : 2 = -9$	$6 + -2 = 4$	$0 + 18 = 18$
$-9 + 3 = -6$	$4 + 17 = 21$	$18 - 2 = 16$
$-6 * -2 = 12$	$21 : 7 = 3$	$16 : 2 = 8$
$12 - -13 = 25$	$3 : 3 = 1$	$8 + -4 = 4$
$25 + -10 = 15$	$1 + -10 = -9$	$4 - -1 = 5$
$15 * -2 = -30$	$-9 : 9 = -1$	$5 : 5 = 1$
$-30 + -10 = -40$	$-1 + -5 = -6$	$1 + -7 = -6$
$-40 * -2 = 80$	$-6 * 1 = -6$	$-6 - -15 = 9$
$80 - -4 = 84$	$-6 * 0 = 0$	$9 : 9 = 1$
$84 - -7 = 91$	$0 + -9 = -9$	$1 + 16 = 17$
$91 - 16 = 75$	$-9 + -10 = -19$	$17 * 0 = 0$
$75 : 5 = 15$	$-19 + 7 = -12$	$0 + -14 = -14$
$15 * 3 = 45$	$-12 * 2 = -24$	$-14 + 19 = 5$
$45 + -17 = 28$	$-24 + -14 = -38$	$5 * 1 = 5$
$28 - 11 = 17$	$-38 : 2 = -19$	$5 : 5 = 1$
$17 * -4 = -68$	$-19 * -1 = 19$	$1 - -19 = 20$
$-68 : 2 = -34$	$19 + -6 = 13$	$20 - -11 = 31$
$-34 * 0 = 0$	$13 * 5 = 65$	$31 - -7 = 38$
$0 + -13 = -13$	$65 : 13 = 5$	$38 - -14 = 52$
$-13 : 13 = -1$	$5 + -7 = -2$	$52 - 19 = 33$
$-1 * 5 = -5$	$-2 + 6 = 4$	$33 * 3 = 99$
$-5 * -4 = 20$	$4 : 2 = 2$	$99 : 11 = 9$
$20 * 4 = 80$	$2 - -6 = 8$	$9 : 9 = 1$
$80 : 5 = 16$	$8 * -2 = -16$	$1 + 18 = 19$
$16 : 2 = 8$	$-16 * -1 = 16$	$19 - 16 = 3$
$8 - -16 = 24$	$16 + 12 = 28$	$3 - -7 = 10$
$24 - 0 = 24$	$28 : 7 = 4$	
	$7 * 2 = 14$	

Kopfrechnen mittel(78)

$18 + -7 = 11$	$1 + -2 = -1$	$-4 - -14 = 10$
$11 + 15 = 26$	$-1 + -11 = -12$	$10 * -3 = -30$
$26 : 13 = 2$	$-12 + 14 = 2$	$-30 : 10 = -3$
$2 : 2 = 1$	$2 - -7 = 9$	$-3 + 13 = 10$
$1 + -6 = -5$	$9 : 9 = 1$	$10 * 4 = 40$
$-5 * 3 = -15$	$1 + -18 = -17$	$40 * 4 = 160$
$-15 * 1 = -15$	$-17 * 4 = -68$	$160 - 18 = 142$
$-15 + 19 = 4$	$-68 : 4 = -17$	$142 * -1 = -142$
$4 + 6 = 10$	$-17 + -13 = -30$	$-142 : 2 = -71$
$10 * -2 = -20$	$-30 : 2 = -15$	$-71 + 16 = -55$
$-20 + 1 = -19$	$-15 + 14 = -1$	$-55 * 0 = 0$
$-19 + 1 = -18$	$-1 + 15 = 14$	$0 + 6 = 6$
$-18 : 6 = -3$	$14 - -14 = 28$	$6 - 2 = 4$
$-3 * 2 = -6$	$28 : 4 = 7$	$4 + 11 = 15$
$-6 * 2 = -12$	$7 * 2 = 14$	$15 + 7 = 22$
$-12 : 2 = -6$	$14 * -3 = -42$	$22 - -14 = 36$
$-6 : 3 = -2$	$-42 * 5 = -210$	$36 * 5 = 180$
$-2 * 2 = -4$	$-210 : 10 = -21$	$180 - -1 = 181$
$-4 : 2 = -2$	$-21 + -17 = -38$	$181 + -16 = 165$
$-2 + 2 = 0$	$-38 + 1 = -37$	$165 : 11 = 15$
$0 + 14 = 14$	$-37 + 14 = -23$	$15 + -5 = 10$
$14 : 7 = 2$	$-23 + -6 = -29$	$10 + 4 = 14$
$2 - -8 = 10$	$-29 * -3 = 87$	$14 + -9 = 5$
$10 - -17 = 27$	$87 + 15 = 102$	$5 + 3 = 8$
$27 - 10 = 17$	$102 * -1 = -102$	$8 + 10 = 18$
$17 * 4 = 68$	$-102 * -2 = 204$	$18 - -19 = 37$
$68 * 5 = 340$	$204 : 3 = 68$	$37 - -15 = 52$
$340 * 5 = 1700$	$68 - 2 = 66$	$52 * 4 = 208$
$1700 + 7 = 1707$	$66 * -2 = -132$	$208 * 3 = 624$
$1707 - 12 = 1695$	$-132 + 18 = -114$	$624 : 2 = 312$
$1695 - -5 = 1700$	$-114 * -4 = 456$	$312 : 12 = 26$
$1700 - 18 = 1682$	$456 + 13 = 469$	$26 * 0 = 0$
$1682 * -4 = -6728$	$469 - 4 = 465$	$0 + 12 = 12$
$-6728 * 4 = -26912$	$465 - 4 = 461$	$12 * -2 = -24$
$-26912 * -1 = 26912$	$461 - 3 = 458$	$-24 : 3 = -8$
$26912 - 12 = 26900$	$458 - -13 = 471$	$-8 : 2 = -4$
$26900 + -11 = 26889$	$471 + 0 = 471$	$-4 - -6 = 2$
$26889 - -9 = 26898$	$471 + 18 = 489$	
	$13 + -17 = -4$	

Kopfrechnen mittel(79)

$1 * 1 = 1$	$3 + -3 = 0$	$1 + -6 = -5$
$1 - 1 = 0$	$0 + 0 = 0$	$-5 + 11 = 6$
$0 + -15 = -15$	$0 + -5 = -5$	$6 + 7 = 13$
$-15 : 3 = -5$	$-5 * 2 = -10$	$13 : 13 = 1$
$-5 * 4 = -20$	$-10 : 5 = -2$	$1 + -15 = -14$
$-20 + 16 = -4$	$-2 * -2 = 4$	$-14 + 2 = -12$
$-4 * 1 = -4$	$4 + 9 = 13$	$-12 + 14 = 2$
$-4 + -15 = -19$	$13 : 13 = 1$	$2 - -15 = 17$
$-19 * -3 = 57$	$1 * -1 = -1$	$17 * -1 = -17$
$57 - 17 = 40$	$-1 * 5 = -5$	$-17 + 20 = 3$
$40 - -9 = 49$	$-5 : 5 = -1$	$3 + -15 = -12$
$49 - -9 = 58$	$-1 * 3 = -3$	$-12 : 2 = -6$
$58 * 4 = 232$	$-3 - -17 = 14$	$-6 * 2 = -12$
$232 : 4 = 58$	$14 + -7 = 7$	$-12 * -1 = 12$
$58 - -16 = 74$	$7 + 19 = 26$	$12 + -17 = -5$
$74 * -1 = -74$	$26 * 0 = 0$	$-5 - -8 = 3$
$-74 * -3 = 222$	$0 + 17 = 17$	$3 + 1 = 4$
$222 - 8 = 214$	$17 * 3 = 51$	$4 * 3 = 12$
$214 * 1 = 214$	$51 : 3 = 17$	$12 : 3 = 4$
$214 + -17 = 197$	$17 * 0 = 0$	$4 + 11 = 15$
$197 + 3 = 200$	$0 + 10 = 10$	$15 * 1 = 15$
$200 * 5 = 1000$	$10 - 5 = 5$	$15 + -18 = -3$
$1000 + -17 = 983$	$5 * 0 = 0$	$-3 * 5 = -15$
$983 + 9 = 992$	$0 + 20 = 20$	$-15 + -3 = -18$
$992 : 2 = 496$	$20 * -2 = -40$	$-18 : 9 = -2$
$496 : 8 = 62$	$-40 * 1 = -40$	$-2 * 2 = -4$
$62 - 17 = 45$	$-40 + -3 = -43$	$-4 * -2 = 8$
$45 + 13 = 58$	$-43 * -1 = 43$	$8 * 0 = 0$
$58 - -3 = 61$	$43 * -2 = -86$	$0 + -1 = -1$
$61 - 0 = 61$	$-86 + -4 = -90$	$-1 + 1 = 0$
$61 - 14 = 47$	$-90 + 6 = -84$	$0 + 8 = 8$
$47 * 5 = 235$	$-84 : 3 = -28$	$8 - 5 = 3$
$235 : 5 = 47$	$-28 * 2 = -56$	$3 + -17 = -14$
$47 * -3 = -141$	$-56 : 7 = -8$	$-14 * 0 = 0$
$-141 + 3 = -138$	$-8 : 8 = -1$	$0 + 9 = 9$
$-138 : 3 = -46$	$-1 * -1 = 1$	$9 + 19 = 28$
$-46 * 0 = 0$	$1 + 6 = 7$	$28 * -2 = -56$
$0 + -11 = -11$	$7 - -19 = 26$	
	$5 : 5 = 1$	

Kopfrechnen mittel(80)

$18 + -19 = -1$	$17 - -14 = 31$	$-16 * 1 = -16$
$-1 - -9 = 8$	$31 + 3 = 34$	$-16 : 8 = -2$
$8 + 19 = 27$	$34 + -11 = 23$	$-2 * -3 = 6$
$27 - 10 = 17$	$23 - 15 = 8$	$6 * 0 = 0$
$17 - -13 = 30$	$8 * -1 = -8$	$0 + 3 = 3$
$30 - 13 = 17$	$-8 : 4 = -2$	$3 : 3 = 1$
$17 * 3 = 51$	$-2 + 20 = 18$	$1 + -1 = 0$
$51 * 5 = 255$	$18 - 17 = 1$	$0 + 11 = 11$
$255 - -15 = 270$	$1 - -16 = 17$	$11 + 11 = 22$
$270 : 3 = 90$	$17 * 0 = 0$	$22 + 1 = 23$
$90 * 3 = 270$	$0 + -8 = -8$	$23 * 4 = 92$
$270 - 6 = 264$	$-8 * 4 = -32$	$92 * -4 = -368$
$264 * 3 = 792$	$-32 + -19 = -51$	$-368 + -19 = -387$
$792 : 9 = 88$	$-51 * -4 = 204$	$-387 * -4 = 1548$
$88 * -2 = -176$	$204 + -16 = 188$	$1548 : 3 = 516$
$-176 + 13 = -163$	$188 : 2 = 94$	$516 - 17 = 499$
$-163 + -9 = -172$	$94 : 2 = 47$	$499 + -10 = 489$
$-172 + 16 = -156$	$47 + 17 = 64$	$489 + 17 = 506$
$-156 + -17 = -173$	$64 * -1 = -64$	$506 - 1 = 505$
$-173 * 0 = 0$	$-64 : 8 = -8$	$505 * -2 = -1010$
$0 + 5 = 5$	$-8 - -14 = 6$	$-1010 + -16 = -1026$
$5 + 14 = 19$	$6 - -10 = 16$	$-1026 : 3 = -342$
$19 - -3 = 22$	$16 + -9 = 7$	$-342 : 2 = -171$
$22 + -14 = 8$	$7 : 7 = 1$	$-171 : 3 = -57$
$8 - -13 = 21$	$1 * 1 = 1$	$-57 * 1 = -57$
$21 * 2 = 42$	$1 * 1 = 1$	$-57 + 11 = -46$
$42 : 3 = 14$	$1 + 7 = 8$	$-46 : 2 = -23$
$14 - 12 = 2$	$8 * 5 = 40$	$-23 * 1 = -23$
$2 + 19 = 21$	$40 * -2 = -80$	$-23 + -2 = -25$
$21 * -4 = -84$	$-80 : 5 = -16$	$-25 + -1 = -26$
$-84 * -2 = 168$	$-16 : 4 = -4$	$-26 * 4 = -104$
$168 + 14 = 182$	$-4 : 4 = -1$	$-104 + 14 = -90$
$182 + -4 = 178$	$-1 + 3 = 2$	$-90 + 1 = -89$
$178 + -9 = 169$	$2 * -3 = -6$	$-89 * 5 = -445$
$169 + -1 = 168$	$-6 + 13 = 7$	$-445 * 2 = -890$
$168 * 3 = 504$	$7 : 7 = 1$	$-890 + -15 = -905$
$504 - -7 = 511$	$1 + -7 = -6$	$-905 * -3 = 2715$
$511 + 13 = 524$	$-6 - -15 = 9$	
	$8 * -2 = -16$	

Kopfrechnen mittel(81)

$19 * -3 = -57$	$7 + 14 = 21$	$1 - -11 = 12$
$-57 + -17 = -74$	$21 : 7 = 3$	$12 - -8 = 20$
$-74 : 2 = -37$	$3 - -8 = 11$	$20 - 15 = 5$
$-37 * 5 = -185$	$11 + 10 = 21$	$5 + 1 = 6$
$-185 + -14 = -199$	$21 + 1 = 22$	$6 * -1 = -6$
$-199 + -12 = -211$	$22 - -5 = 27$	$-6 : 3 = -2$
$-211 * 4 = -844$	$27 : 3 = 9$	$-2 * 3 = -6$
$-844 : 2 = -422$	$9 - -6 = 15$	$-6 + 11 = 5$
$-422 + 19 = -403$	$15 + -15 = 0$	$5 + 17 = 22$
$-403 * 0 = 0$	$0 + 10 = 10$	$22 - -12 = 34$
$0 + 9 = 9$	$10 : 10 = 1$	$34 + 14 = 48$
$9 * 1 = 9$	$1 + -16 = -15$	$48 - 19 = 29$
$9 : 3 = 3$	$-15 : 5 = -3$	$29 * 3 = 87$
$3 + -1 = 2$	$-3 * 0 = 0$	$87 + -14 = 73$
$2 - -18 = 20$	$0 + 6 = 6$	$73 - 8 = 65$
$20 + 19 = 39$	$6 : 2 = 3$	$65 - 15 = 50$
$39 : 13 = 3$	$3 + 10 = 13$	$50 - 12 = 38$
$3 + 18 = 21$	$13 + -11 = 2$	$38 * 2 = 76$
$21 + 5 = 26$	$2 * -2 = -4$	$76 : 4 = 19$
$26 * 2 = 52$	$-4 + -8 = -12$	$19 + 18 = 37$
$52 + -12 = 40$	$-12 + 18 = 6$	$37 + 12 = 49$
$40 - 20 = 20$	$6 : 6 = 1$	$49 : 7 = 7$
$20 + 15 = 35$	$1 * 4 = 4$	$7 + -11 = -4$
$35 - 1 = 34$	$4 : 2 = 2$	$-4 - -13 = 9$
$34 + 20 = 54$	$2 : 2 = 1$	$9 : 3 = 3$
$54 * 1 = 54$	$1 + 1 = 2$	$3 + 15 = 18$
$54 - 20 = 34$	$2 + -3 = -1$	$18 + 0 = 18$
$34 * 4 = 136$	$-1 - -10 = 9$	$18 : 3 = 6$
$136 - -4 = 140$	$9 + -18 = -9$	$6 + 8 = 14$
$140 - 6 = 134$	$-9 * -1 = 9$	$14 + -14 = 0$
$134 + 16 = 150$	$9 + -15 = -6$	$0 + -7 = -7$
$150 - 17 = 133$	$-6 : 2 = -3$	$-7 * -1 = 7$
$133 : 7 = 19$	$-3 - -3 = 0$	$7 - -4 = 11$
$19 + 9 = 28$	$0 + -13 = -13$	$11 + 13 = 24$
$28 + 5 = 33$	$-13 : 13 = -1$	$24 : 6 = 4$
$33 * -2 = -66$	$-1 + 18 = 17$	$4 : 2 = 2$
$-66 * 3 = -198$	$17 - 8 = 9$	$2 - -15 = 17$
$-198 + -8 = -206$	$9 : 9 = 1$	
	$5 : 5 = 1$	

Kopfrechnen mittel(82)

$1 + 7 = 8$	$2 * 0 = 0$	$21 : 7 = 3$
$8 * 4 = 32$	$0 + -6 = -6$	$3 - -7 = 10$
$32 * 1 = 32$	$-6 + 4 = -2$	$10 + -15 = -5$
$32 - 13 = 19$	$-2 * 4 = -8$	$-5 : 5 = -1$
$19 * 4 = 76$	$-8 * -1 = 8$	$-1 * -4 = 4$
$76 - -14 = 90$	$8 * 4 = 32$	$4 * 0 = 0$
$90 - -17 = 107$	$32 : 2 = 16$	$0 + -4 = -4$
$107 + 7 = 114$	$16 : 2 = 8$	$-4 - -5 = 1$
$114 * 1 = 114$	$8 - -15 = 23$	$1 + 0 = 1$
$114 - 16 = 98$	$23 - 10 = 13$	$1 + -9 = -8$
$98 * 0 = 0$	$13 + 9 = 22$	$-8 * 0 = 0$
$0 + 15 = 15$	$22 - 5 = 17$	$0 + 9 = 9$
$15 - 9 = 6$	$17 * 5 = 85$	$9 - -16 = 25$
$6 - -16 = 22$	$85 * 0 = 0$	$25 * 0 = 0$
$22 * 2 = 44$	$0 + -17 = -17$	$0 + 6 = 6$
$44 - 20 = 24$	$-17 * 5 = -85$	$6 + -18 = -12$
$24 + 17 = 41$	$-85 + 6 = -79$	$-12 * 5 = -60$
$41 + -14 = 27$	$-79 * 4 = -316$	$-60 + 8 = -52$
$27 : 3 = 9$	$-316 + 20 = -296$	$-52 + -14 = -66$
$9 : 9 = 1$	$-296 : 4 = -74$	$-66 + 3 = -63$
$1 * -3 = -3$	$-74 * 4 = -296$	$-63 : 7 = -9$
$-3 * -4 = 12$	$-296 + 18 = -278$	$-9 * 1 = -9$
$12 + -13 = -1$	$-278 * -3 = 834$	$-9 + 0 = -9$
$-1 * -3 = 3$	$834 - -14 = 848$	$-9 : 9 = -1$
$3 : 3 = 1$	$848 + 17 = 865$	$-1 * 4 = -4$
$1 - -6 = 7$	$865 - -16 = 881$	$-4 * -3 = 12$
$7 + -9 = -2$	$881 * 3 = 2643$	$12 + 6 = 18$
$-2 * -2 = 4$	$2643 - 20 = 2623$	$18 - 3 = 15$
$4 * -4 = -16$	$2623 * 2 = 5246$	$15 - 12 = 3$
$-16 : 8 = -2$	$5246 - 16 = 5230$	$3 + 17 = 20$
$-2 + -12 = -14$	$5230 : 5 = 1046$	$20 * 2 = 40$
$-14 * 0 = 0$	$1046 + 12 = 1058$	$40 : 8 = 5$
$0 + 4 = 4$	$1058 + 19 = 1077$	$5 + 1 = 6$
$4 * -3 = -12$	$1077 * -3 = -3231$	$6 * -1 = -6$
$-12 + -2 = -14$	$-3231 : 3 = -1077$	$-6 : 3 = -2$
$-14 : 7 = -2$	$-1077 + 1 = -1076$	$-2 + -3 = -5$
$-2 * 2 = -4$	$-1076 : 2 = -538$	$-5 + -17 = -22$
$-4 : 4 = -1$	$-538 * -1 = 538$	
	$7 - -14 = 21$	

Kopfrechnen mittel(83)

$$\begin{aligned}11 + -1 &= 10 \\10 + -17 &= -7 \\-7 + 0 &= -7 \\-7 * -4 &= 28 \\28 : 2 &= 14 \\14 : 2 &= 7 \\7 : 7 &= 1 \\1 - -13 &= 14 \\14 - -6 &= 20 \\20 + -3 &= 17 \\17 - -13 &= 30 \\30 * -3 &= -90 \\-90 + -5 &= -95 \\-95 * 5 &= -475 \\-475 + -4 &= -479 \\-479 * -1 &= 479 \\479 - -15 &= 494 \\494 * -4 &= -1976 \\-1976 + 20 &= -1956 \\-1956 + -18 &= -1974 \\-1974 * -3 &= 5922 \\5922 : 3 &= 1974 \\1974 : 6 &= 329 \\329 * 4 &= 1316 \\1316 + -5 &= 1311 \\1311 * 4 &= 5244 \\5244 : 2 &= 2622 \\2622 + -14 &= 2608 \\2608 - -3 &= 2611 \\2611 : 7 &= 373 \\373 * -2 &= -746 \\-746 + -2 &= -748 \\-748 : 2 &= -374 \\-374 + -10 &= -384 \\-384 : 6 &= -64 \\-64 + -7 &= -71 \\-71 * -1 &= 71 \\71 * 1 &= 71\end{aligned}$$

$$\begin{aligned}20 + -19 &= 1 \\1 + -3 &= -2 \\-2 - -4 &= 2 \\2 - -10 &= 12 \\12 + 3 &= 15 \\15 + -1 &= 14 \\14 * -2 &= -28 \\-28 * -2 &= 56 \\56 - -13 &= 69 \\69 + -19 &= 50 \\50 + 0 &= 50 \\50 + -13 &= 37 \\37 * 0 &= 0 \\0 + 8 &= 8 \\8 - -7 &= 15 \\15 + -16 &= -1 \\-1 - -2 &= 1 \\1 + -9 &= -8 \\-8 + -11 &= -19 \\-19 * 0 &= 0 \\0 + -5 &= -5 \\-5 + 13 &= 8 \\8 - -16 &= 24 \\24 + 6 &= 30 \\30 * 2 &= 60 \\60 * 2 &= 120 \\120 : 6 &= 20 \\20 + 4 &= 24 \\24 + 7 &= 31 \\31 - -5 &= 36 \\36 + -18 &= 18 \\18 * -3 &= -54 \\-54 * 2 &= -108 \\-108 : 2 &= -54 \\-54 * 5 &= -270 \\-270 * 3 &= -810 \\-810 : 9 &= -90 \\-90 : 9 &= -10 \\15 * -1 &= -15\end{aligned}$$

$$\begin{aligned}-15 + -13 &= -28 \\-28 : 7 &= -4 \\-4 + -9 &= -13 \\-13 * 1 &= -13 \\-13 + 11 &= -2 \\-2 * -1 &= 2 \\2 * -2 &= -4 \\-4 * -2 &= 8 \\8 : 2 &= 4 \\4 * -3 &= -12 \\-12 : 3 &= -4 \\-4 - -17 &= 13 \\13 : 13 &= 1 \\1 - 1 &= 0 \\0 + -4 &= -4 \\-4 * 2 &= -8 \\-8 + 18 &= 10 \\10 + 18 &= 28 \\28 : 4 &= 7 \\7 + 7 &= 14 \\14 : 7 &= 2 \\2 + 1 &= 3 \\3 + 3 &= 6 \\6 + -4 &= 2 \\2 * -2 &= -4 \\-4 + 18 &= 14 \\14 * -4 &= -56 \\-56 : 7 &= -8 \\-8 : 8 &= -1 \\-1 + 17 &= 16 \\16 + 14 &= 30 \\30 - -13 &= 43 \\43 - -2 &= 45 \\45 * 1 &= 45 \\45 : 3 &= 15 \\15 + 19 &= 34 \\34 * -2 &= -68\end{aligned}$$

Kopfrechnen mittel(84)

$$\begin{aligned}17 + 20 &= 37 \\37 * -1 &= -37 \\-37 * 4 &= -148 \\-148 : 2 &= -74 \\-74 + 12 &= -62 \\-62 + 3 &= -59 \\-59 * 4 &= -236 \\-236 + 8 &= -228 \\-228 : 6 &= -38 \\-38 : 2 &= -19 \\-19 + -4 &= -23 \\-23 + -12 &= -35 \\-35 : 7 &= -5 \\-5 : 5 &= -1 \\-1 + 5 &= 4 \\4 * -4 &= -16 \\-16 - -16 &= 0 \\0 + 19 &= 19 \\19 * -4 &= -76 \\-76 + -5 &= -81 \\-81 + 4 &= -77 \\-77 * -2 &= 154 \\154 + 16 &= 170 \\170 + -4 &= 166 \\166 - -4 &= 170 \\170 + -13 &= 157 \\157 + 9 &= 166 \\166 + -15 &= 151 \\151 + 1 &= 152 \\152 * 0 &= 0 \\0 + 1 &= 1 \\1 + -14 &= -13 \\-13 + 17 &= 4 \\4 + -15 &= -11 \\-11 : 11 &= -1 \\-1 - -9 &= 8 \\8 : 8 &= 1 \\1 + 0 &= 1\end{aligned}$$

$$\begin{aligned}9 + 18 &= 27 \\27 - 4 &= 23 \\23 * 0 &= 0 \\0 + 14 &= 14 \\14 * 4 &= 56 \\56 - -2 &= 58 \\58 + 11 &= 69 \\69 * 3 &= 207 \\207 : 9 &= 23 \\23 * -2 &= -46 \\-46 : 2 &= -23 \\-23 + 7 &= -16 \\-16 : 2 &= -8 \\-8 * -1 &= 8 \\8 * -3 &= -24 \\-24 * 4 &= -96 \\-96 : 6 &= -16 \\-16 * -3 &= 48 \\48 + -4 &= 44 \\44 + 1 &= 45 \\45 - 3 &= 42 \\42 + 2 &= 44 \\44 : 11 &= 4 \\4 + 17 &= 21 \\21 + -10 &= 11 \\11 + 12 &= 23 \\23 + 15 &= 38 \\38 : 2 &= 19 \\19 + -4 &= 15 \\15 - 6 &= 9 \\9 * 0 &= 0 \\0 + 3 &= 3 \\3 + 10 &= 13 \\13 - -2 &= 15 \\15 + 18 &= 33 \\33 + 20 &= 53 \\53 - -1 &= 54 \\54 + 7 &= 61 \\11 * -2 &= -22\end{aligned}$$

$$\begin{aligned}-22 * 5 &= -110 \\-110 : 2 &= -55 \\-55 : 11 &= -5 \\-5 + -2 &= -7 \\-7 + 20 &= 13 \\13 + 11 &= 24 \\24 + -14 &= 10 \\10 * 5 &= 50 \\50 + 3 &= 53 \\53 - 1 &= 52 \\52 : 4 &= 13 \\13 * -1 &= -13 \\-13 * -2 &= 26 \\26 - 9 &= 17 \\17 + 19 &= 36 \\36 : 3 &= 12 \\12 * 1 &= 12 \\12 * -3 &= -36 \\-36 * -2 &= 72 \\72 : 9 &= 8 \\8 + 3 &= 11 \\11 + -13 &= -2 \\-2 + 20 &= 18 \\18 + 19 &= 37 \\37 * 1 &= 37 \\37 + 9 &= 46 \\46 + 2 &= 48 \\48 : 6 &= 8 \\8 : 2 &= 4 \\4 + -18 &= -14 \\-14 * -3 &= 42 \\42 * -2 &= -84 \\-84 * 1 &= -84 \\-84 * 3 &= -252 \\-252 * 3 &= -756 \\-756 + -7 &= -763 \\-763 : 7 &= -109\end{aligned}$$

Kopfrechnen mittel(85)

$8 : 4 = 2$	$20 : 4 = 5$	$18 - -6 = 24$
$2 + -6 = -4$	$5 * -2 = -10$	$24 : 4 = 6$
$-4 + -11 = -15$	$-10 * 0 = 0$	$6 : 3 = 2$
$-15 * 1 = -15$	$0 + 17 = 17$	$2 + 1 = 3$
$-15 * -2 = 30$	$17 - -1 = 18$	$3 + -16 = -13$
$30 - 4 = 26$	$18 : 9 = 2$	$-13 + 1 = -12$
$26 * -1 = -26$	$2 - 1 = 1$	$-12 * 2 = -24$
$-26 : 13 = -2$	$1 + -10 = -9$	$-24 + -16 = -40$
$-2 * -1 = 2$	$-9 : 3 = -3$	$-40 + -18 = -58$
$2 + -2 = 0$	$-3 + 8 = 5$	$-58 + 5 = -53$
$0 + -8 = -8$	$5 - -14 = 19$	$-53 + 18 = -35$
$-8 : 2 = -4$	$19 + 5 = 24$	$-35 : 7 = -5$
$-4 + 13 = 9$	$24 + -18 = 6$	$-5 - -11 = 6$
$9 * -2 = -18$	$6 - -13 = 19$	$6 + 15 = 21$
$-18 * 4 = -72$	$19 - -3 = 22$	$21 * 0 = 0$
$-72 + -8 = -80$	$22 + -6 = 16$	$0 + -4 = -4$
$-80 + 13 = -67$	$16 : 2 = 8$	$-4 * -4 = 16$
$-67 * -1 = 67$	$8 + -14 = -6$	$16 * -2 = -32$
$67 - 8 = 59$	$-6 + 9 = 3$	$-32 * 0 = 0$
$59 * 3 = 177$	$3 * -3 = -9$	$0 + -8 = -8$
$177 - 1 = 176$	$-9 + -8 = -17$	$-8 : 4 = -2$
$176 - -3 = 179$	$-17 + -18 = -35$	$-2 * 3 = -6$
$179 + -5 = 174$	$-35 : 5 = -7$	$-6 + -5 = -11$
$174 : 6 = 29$	$-7 + -14 = -21$	$-11 * 0 = 0$
$29 - -14 = 43$	$-21 + -15 = -36$	$0 + -14 = -14$
$43 - 20 = 23$	$-36 + 13 = -23$	$-14 + 5 = -9$
$23 * -3 = -69$	$-23 * -3 = 69$	$-9 + 14 = 5$
$-69 * 3 = -207$	$69 - -12 = 81$	$5 + 3 = 8$
$-207 + 8 = -199$	$81 - 6 = 75$	$8 * 4 = 32$
$-199 * 5 = -995$	$75 * 2 = 150$	$32 : 4 = 8$
$-995 * -3 = 2985$	$150 - -1 = 151$	$8 + -10 = -2$
$2985 + 18 = 3003$	$151 + -13 = 138$	$-2 - -6 = 4$
$3003 : 7 = 429$	$138 - 7 = 131$	$4 + 17 = 21$
$429 * 4 = 1716$	$131 + 1 = 132$	$21 + -16 = 5$
$1716 * 1 = 1716$	$132 : 3 = 44$	$5 + 2 = 7$
$1716 * -2 = -3432$	$44 - -3 = 47$	$7 + 7 = 14$
$-3432 : 13 = -264$	$47 + 20 = 67$	$14 * 4 = 56$
$-264 : 3 = -88$	$67 * -2 = -134$	
	$4 - -14 = 18$	

Kopfrechnen mittel(86)

$6 + -13 = -7$	$12 - -1 = 13$	$18 + 12 = 30$
$-7 : 7 = -1$	$13 * -2 = -26$	$30 : 10 = 3$
$-1 - -4 = 3$	$-26 + 7 = -19$	$3 * 5 = 15$
$3 * 1 = 3$	$-19 * 1 = -19$	$15 - 5 = 10$
$3 : 3 = 1$	$-19 + -6 = -25$	$10 * 5 = 50$
$1 - -8 = 9$	$-25 * -3 = 75$	$50 * 0 = 0$
$9 : 3 = 3$	$75 + 12 = 87$	$0 + -19 = -19$
$3 : 3 = 1$	$87 - -10 = 97$	$-19 * -3 = 57$
$1 + 18 = 19$	$97 - -13 = 110$	$57 * 0 = 0$
$19 - 1 = 18$	$110 * 0 = 0$	$0 + -18 = -18$
$18 + 19 = 37$	$0 + -8 = -8$	$-18 + 6 = -12$
$37 - 13 = 24$	$-8 + -12 = -20$	$-12 * 2 = -24$
$24 : 3 = 8$	$-20 + 8 = -12$	$-24 * 0 = 0$
$8 * -4 = -32$	$-12 + 16 = 4$	$0 + 3 = 3$
$-32 + -2 = -34$	$4 : 2 = 2$	$3 + -19 = -16$
$-34 : 2 = -17$	$2 * 2 = 4$	$-16 : 8 = -2$
$-17 * 2 = -34$	$4 + -12 = -8$	$-2 : 2 = -1$
$-34 * -1 = 34$	$-8 - -8 = 0$	$-1 * -4 = 4$
$34 * -3 = -102$	$0 + -3 = -3$	$4 : 4 = 1$
$-102 * 1 = -102$	$-3 * 0 = 0$	$1 * 5 = 5$
$-102 * 3 = -306$	$0 + -3 = -3$	$5 + 10 = 15$
$-306 + 15 = -291$	$-3 * 4 = -12$	$15 : 5 = 3$
$-291 + -9 = -300$	$-12 * -2 = 24$	$3 : 3 = 1$
$-300 * 3 = -900$	$24 - -9 = 33$	$1 * 1 = 1$
$-900 : 3 = -300$	$33 : 3 = 11$	$1 - -15 = 16$
$-300 * 4 = -1200$	$11 * 1 = 11$	$16 - 3 = 13$
$-1200 + -18 = -1218$	$11 + 12 = 23$	$13 + 15 = 28$
$-1218 : 7 = -174$	$23 - -5 = 28$	$28 + 2 = 30$
$-174 : 2 = -87$	$28 - 17 = 11$	$30 * 5 = 150$
$-87 * -4 = 348$	$11 + -1 = 10$	$150 + 10 = 160$
$348 - -13 = 361$	$10 * -2 = -20$	$160 : 8 = 20$
$361 - 12 = 349$	$-20 * 4 = -80$	$20 : 10 = 2$
$349 + 17 = 366$	$-80 * -4 = 320$	$2 + 6 = 8$
$366 : 2 = 183$	$320 - -2 = 322$	$8 + -14 = -6$
$183 + 0 = 183$	$322 * 4 = 1288$	$-6 - -18 = 12$
$183 + -9 = 174$	$1288 - 7 = 1281$	$12 : 6 = 2$
$174 * 0 = 0$	$1281 : 7 = 183$	$2 * -4 = -8$
$0 + -9 = -9$	$183 * 3 = 549$	
	$19 + -1 = 18$	

Kopfrechnen mittel(87)

$$\begin{aligned}9 * -3 &= -27 \\ -27 * 5 &= -135 \\ -135 * -3 &= 405 \\ 405 * -4 &= -1620 \\ -1620 + -11 &= -1631 \\ -1631 + -5 &= -1636 \\ -1636 + -15 &= -1651 \\ -1651 * -1 &= 1651 \\ 1651 + 11 &= 1662 \\ 1662 : 3 &= 554 \\ 554 - 19 &= 535 \\ 535 : 5 &= 107 \\ 107 * -1 &= -107 \\ -107 + -14 &= -121 \\ -121 * -2 &= 242 \\ 242 + 13 &= 255 \\ 255 - -5 &= 260 \\ 260 : 4 &= 65 \\ 65 : 5 &= 13 \\ 13 + -5 &= 8 \\ 8 : 4 &= 2 \\ 2 * 2 &= 4 \\ 4 : 2 &= 2 \\ 2 * 2 &= 4 \\ 4 - 4 &= 0 \\ 0 + -14 &= -14 \\ -14 : 2 &= -7 \\ -7 * -3 &= 21 \\ 21 - 4 &= 17 \\ 17 * 1 &= 17 \\ 17 + -19 &= -2 \\ -2 * -1 &= 2 \\ 2 : 2 &= 1 \\ 1 - -5 &= 6 \\ 6 - 6 &= 0 \\ 0 + -16 &= -16 \\ -16 * 0 &= 0 \\ 0 + -12 &= -12\end{aligned}$$

$$\begin{aligned}1 * -3 &= -3 \\ -3 + -12 &= -15 \\ -15 * 2 &= -30 \\ -30 : 2 &= -15 \\ -15 : 3 &= -5 \\ -5 * -4 &= 20 \\ 20 : 2 &= 10 \\ 10 + -8 &= 2 \\ 2 : 2 &= 1 \\ 1 * 2 &= 2 \\ 2 - -17 &= 19 \\ 19 * 3 &= 57 \\ 57 * -3 &= -171 \\ -171 * -3 &= 513 \\ 513 - 0 &= 513 \\ 513 - -11 &= 524 \\ 524 + 5 &= 529 \\ 529 * -1 &= -529 \\ -529 * 4 &= -2116 \\ -2116 * -4 &= 8464 \\ 8464 * -3 &= -25392 \\ -25392 : 6 &= -4232 \\ -4232 * -2 &= 8464 \\ 8464 + 6 &= 8470 \\ 8470 * -3 &= -25410 \\ -25410 + 13 &= -25397 \\ -25397 + -10 &= -25407 \\ -25407 : 9 &= -2823 \\ -2823 + 12 &= -2811 \\ -2811 * 0 &= 0 \\ 0 + 3 &= 3 \\ 3 * 4 &= 12 \\ 12 * 0 &= 0 \\ 0 + 16 &= 16 \\ 16 - -19 &= 35 \\ 35 + -1 &= 34 \\ 34 * 3 &= 102 \\ 102 : 2 &= 51 \\ 3 + 12 &= 15\end{aligned}$$

$$\begin{aligned}15 - 9 &= 6 \\ 6 : 6 &= 1 \\ 1 * 3 &= 3 \\ 3 + -13 &= -10 \\ -10 - -16 &= 6 \\ 6 : 3 &= 2 \\ 2 * 5 &= 10 \\ 10 + 4 &= 14 \\ 14 * -4 &= -56 \\ -56 + -2 &= -58 \\ -58 + 1 &= -57 \\ -57 + 7 &= -50 \\ -50 : 2 &= -25 \\ -25 + -17 &= -42 \\ -42 * 2 &= -84 \\ -84 * -1 &= 84 \\ 84 - -15 &= 99 \\ 99 - -11 &= 110 \\ 110 * -4 &= -440 \\ -440 * 2 &= -880 \\ -880 : 2 &= -440 \\ -440 : 2 &= -220 \\ -220 + 20 &= -200 \\ -200 * -4 &= 800 \\ 800 + 9 &= 809 \\ 809 + 16 &= 825 \\ 825 - 10 &= 815 \\ 815 * -1 &= -815 \\ -815 + -7 &= -822 \\ -822 : 2 &= -411 \\ -411 * -3 &= 1233 \\ 1233 + 2 &= 1235 \\ 1235 : 13 &= 95 \\ 95 : 5 &= 19 \\ 19 + 4 &= 23 \\ 23 * -4 &= -92 \\ -92 : 4 &= -23\end{aligned}$$

Kopfrechnen mittel(88)

$9 : 9 = 1$	$13 : 13 = 1$	$1 + 11 = 12$
$1 - -5 = 6$	$1 * 3 = 3$	$12 - -7 = 19$
$6 + -10 = -4$	$3 * 1 = 3$	$19 - 6 = 13$
$-4 * -1 = 4$	$3 * 3 = 9$	$13 + 2 = 15$
$4 + -7 = -3$	$9 * -4 = -36$	$15 + 9 = 24$
$-3 * -1 = 3$	$-36 * 4 = -144$	$24 : 4 = 6$
$3 * 2 = 6$	$-144 * 5 = -720$	$6 + -3 = 3$
$6 * -2 = -12$	$-720 : 8 = -90$	$3 + 1 = 4$
$-12 - -15 = 3$	$-90 + -5 = -95$	$4 : 4 = 1$
$3 * -3 = -9$	$-95 + -15 = -110$	$1 + 3 = 4$
$-9 * 4 = -36$	$-110 * 5 = -550$	$4 + 14 = 18$
$-36 + 0 = -36$	$-550 + -4 = -554$	$18 : 3 = 6$
$-36 + -3 = -39$	$-554 : 2 = -277$	$6 + -16 = -10$
$-39 * -1 = 39$	$-277 * 4 = -1108$	$-10 + -12 = -22$
$39 : 13 = 3$	$-1108 + -6 = -1114$	$-22 + 6 = -16$
$3 * 1 = 3$	$-1114 * 4 = -4456$	$-16 : 4 = -4$
$3 * 4 = 12$	$-4456 * -1 = 4456$	$-4 * -2 = 8$
$12 : 12 = 1$	$4456 : 2 = 2228$	$8 : 2 = 4$
$1 * -4 = -4$	$2228 + 10 = 2238$	$4 * 3 = 12$
$-4 : 2 = -2$	$2238 + -6 = 2232$	$12 - -7 = 19$
$-2 : 2 = -1$	$2232 : 3 = 744$	$19 * 0 = 0$
$-1 + -8 = -9$	$744 + -15 = 729$	$0 + 2 = 2$
$-9 * 5 = -45$	$729 * 3 = 2187$	$2 + 13 = 15$
$-45 + -13 = -58$	$2187 * -3 = -6561$	$15 : 5 = 3$
$-58 + 17 = -41$	$-6561 * 3 = -19683$	$3 + 2 = 5$
$-41 * 5 = -205$	$-19683 : 9 = -2187$	$5 : 5 = 1$
$-205 * 2 = -410$	$-2187 + -13 = -2200$	$1 + 8 = 9$
$-410 * -2 = 820$	$-2200 + 15 = -2185$	$9 - -7 = 16$
$820 + 15 = 835$	$-2185 * 3 = -6555$	$16 - 7 = 9$
$835 * -3 = -2505$	$-6555 + 4 = -6551$	$9 * 4 = 36$
$-2505 : 5 = -501$	$-6551 * 2 = -13102$	$36 * 4 = 144$
$-501 + 16 = -485$	$-13102 * -4 = 52408$	$144 - 14 = 130$
$-485 + -13 = -498$	$52408 + 2 = 52410$	$130 : 13 = 10$
$-498 : 6 = -83$	$52410 : 2 = 26205$	$10 - -14 = 24$
$-83 * 1 = -83$	$26205 * 2 = 52410$	$24 * -4 = -96$
$-83 + -12 = -95$	$52410 : 10 = 5241$	$-96 + -15 = -111$
$-95 + 9 = -86$	$5241 - 4 = 5237$	$-111 + -5 = -116$
$-86 : 2 = -43$	$5237 - -18 = 5255$	
	$13 : 13 = 1$	

Kopfrechnen mittel(89)

$18 + -6 = 12$	$7 * 0 = 0$	$30 + 17 = 47$
$12 : 12 = 1$	$0 + -15 = -15$	$47 - 20 = 27$
$1 * 4 = 4$	$-15 - -15 = 0$	$27 : 9 = 3$
$4 * 3 = 12$	$0 + 6 = 6$	$3 : 3 = 1$
$12 - 10 = 2$	$6 : 2 = 3$	$1 + 20 = 21$
$2 * 5 = 10$	$3 : 3 = 1$	$21 - -16 = 37$
$10 - -8 = 18$	$1 + -7 = -6$	$37 + 6 = 43$
$18 * -2 = -36$	$-6 + 3 = -3$	$43 - 3 = 40$
$-36 * -1 = 36$	$-3 * 0 = 0$	$40 + -4 = 36$
$36 : 9 = 4$	$0 + -3 = -3$	$36 - -15 = 51$
$4 + 5 = 9$	$-3 + -17 = -20$	$51 * 5 = 255$
$9 - -12 = 21$	$-20 + 7 = -13$	$255 * -4 = -1020$
$21 + -5 = 16$	$-13 * 1 = -13$	$-1020 : 5 = -204$
$16 * 5 = 80$	$-13 * -3 = 39$	$-204 * -3 = 612$
$80 : 2 = 40$	$39 + 10 = 49$	$612 + 7 = 619$
$40 : 8 = 5$	$49 - -4 = 53$	$619 * 4 = 2476$
$5 * 1 = 5$	$53 + -12 = 41$	$2476 + 9 = 2485$
$5 * 1 = 5$	$41 - 14 = 27$	$2485 - 11 = 2474$
$5 + -7 = -2$	$27 + 2 = 29$	$2474 + -18 = 2456$
$-2 + -15 = -17$	$29 * 1 = 29$	$2456 : 2 = 1228$
$-17 + 3 = -14$	$29 * 3 = 87$	$1228 - -4 = 1232$
$-14 : 7 = -2$	$87 - 11 = 76$	$1232 + -19 = 1213$
$-2 * -1 = 2$	$76 + -8 = 68$	$1213 + 17 = 1230$
$2 + 6 = 8$	$68 : 4 = 17$	$1230 : 5 = 246$
$8 + -13 = -5$	$17 - 1 = 16$	$246 - 4 = 242$
$-5 : 5 = -1$	$16 : 4 = 4$	$242 : 2 = 121$
$-1 + 9 = 8$	$4 + -17 = -13$	$121 - -10 = 131$
$8 * -1 = -8$	$-13 * 0 = 0$	$131 - -1 = 132$
$-8 * -3 = 24$	$0 + -4 = -4$	$132 : 2 = 66$
$24 * -4 = -96$	$-4 - -19 = 15$	$66 * -2 = -132$
$-96 : 8 = -12$	$15 + -18 = -3$	$-132 + 20 = -112$
$-12 * 1 = -12$	$-3 : 3 = -1$	$-112 * -2 = 224$
$-12 * 3 = -36$	$-1 - -17 = 16$	$224 - 2 = 222$
$-36 : 3 = -12$	$16 - 7 = 9$	$222 : 2 = 111$
$-12 + 18 = 6$	$9 * -3 = -27$	$111 : 3 = 37$
$6 : 2 = 3$	$-27 + -4 = -31$	$37 * 4 = 148$
$3 : 3 = 1$	$-31 + -10 = -41$	$148 - -1 = 149$
$1 * -1 = -1$	$-41 + -19 = -60$	
	$20 + 10 = 30$	

Kopfrechnen mittel(90)

$4 + -12 = -8$

$-8 * 3 = -24$

$-24 * -3 = 72$

$72 : 4 = 18$

$18 * -2 = -36$

$-36 * -2 = 72$

$72 + 5 = 77$

$77 - -1 = 78$

$78 - 20 = 58$

$58 : 2 = 29$

$29 * -2 = -58$

$-58 + 11 = -47$

$-47 * 0 = 0$

$0 + -17 = -17$

$-17 - -19 = 2$

$2 + 11 = 13$

$13 * 2 = 26$

$26 + 17 = 43$

$43 - -1 = 44$

$44 + 4 = 48$

$48 - 3 = 45$

$45 - 19 = 26$

$26 * 0 = 0$

$0 + -19 = -19$

$-19 + 7 = -12$

$-12 + 18 = 6$

$6 : 6 = 1$

$1 * -3 = -3$

$-3 * 2 = -6$

$-6 * 5 = -30$

$-30 + 5 = -25$

$-25 * -4 = 100$

$100 * 4 = 400$

$400 : 10 = 40$

$40 - 18 = 22$

$22 * 5 = 110$

$110 : 10 = 11$

$11 + -2 = 9$

$20 * -1 = -20$

$-20 + 16 = -4$

$-4 : 4 = -1$

$-1 * 4 = -4$

$-4 * -2 = 8$

$8 + 7 = 15$

$15 * 3 = 45$

$45 + 12 = 57$

$57 + -16 = 41$

$41 + 8 = 49$

$49 + 8 = 57$

$57 + -16 = 41$

$41 - 5 = 36$

$36 : 3 = 12$

$12 * -4 = -48$

$-48 : 4 = -12$

$-12 - -14 = 2$

$2 : 2 = 1$

$1 + -9 = -8$

$-8 - -14 = 6$

$6 * 1 = 6$

$6 + 3 = 9$

$9 * 2 = 18$

$18 + -2 = 16$

$16 - 13 = 3$

$3 * -3 = -9$

$-9 : 9 = -1$

$-1 * 4 = -4$

$-4 * 2 = -8$

$-8 + -4 = -12$

$-12 : 6 = -2$

$-2 - -6 = 4$

$4 + -6 = -2$

$-2 * -3 = 6$

$6 + -18 = -12$

$-12 + 13 = 1$

$1 + -10 = -9$

$-9 : 3 = -3$

$1 * 0 = 0$

$0 + -3 = -3$

$-3 * 1 = -3$

$-3 : 3 = -1$

$-1 - -8 = 7$

$7 + -12 = -5$

$-5 * -2 = 10$

$10 : 5 = 2$

$2 + -8 = -6$

$-6 * 4 = -24$

$-24 : 4 = -6$

$-6 * 5 = -30$

$-30 * -3 = 90$

$90 : 9 = 10$

$10 : 10 = 1$

$1 + 0 = 1$

$1 - 1 = 0$

$0 + -8 = -8$

$-8 + 2 = -6$

$-6 + 11 = 5$

$5 * -1 = -5$

$-5 * 4 = -20$

$-20 * 5 = -100$

$-100 : 5 = -20$

$-20 + -5 = -25$

$-25 + -3 = -28$

$-28 + 16 = -12$

$-12 * 5 = -60$

$-60 * 5 = -300$

$-300 : 6 = -50$

$-50 * 3 = -150$

$-150 + -16 = -166$

$-166 + 7 = -159$

$-159 : 3 = -53$

$-53 + 13 = -40$

$-40 * 3 = -120$

$-120 * -4 = 480$

$480 - -12 = 492$

Kopfrechnen mittel(91)

$4 : 4 = 1$	$18 - 17 = 1$	$13 + 15 = 28$
$1 * 1 = 1$	$1 + 2 = 3$	$28 - 1 = 27$
$1 + -9 = -8$	$3 * 4 = 12$	$27 * 1 = 27$
$-8 * 2 = -16$	$12 * -1 = -12$	$27 + 10 = 37$
$-16 + 0 = -16$	$-12 : 3 = -4$	$37 * -2 = -74$
$-16 * -1 = 16$	$-4 * 3 = -12$	$-74 + -12 = -86$
$16 * 2 = 32$	$-12 : 4 = -3$	$-86 : 2 = -43$
$32 - 14 = 18$	$-3 : 3 = -1$	$-43 + 14 = -29$
$18 + 5 = 23$	$-1 - -4 = 3$	$-29 + 9 = -20$
$23 * -1 = -23$	$3 * 4 = 12$	$-20 + -19 = -39$
$-23 + 13 = -10$	$12 - -5 = 17$	$-39 * 5 = -195$
$-10 + -12 = -22$	$17 * 4 = 68$	$-195 + 2 = -193$
$-22 * 1 = -22$	$68 * -2 = -136$	$-193 * 5 = -965$
$-22 : 2 = -11$	$-136 * -3 = 408$	$-965 * -1 = 965$
$-11 : 11 = -1$	$408 * 4 = 1632$	$965 + 18 = 983$
$-1 * -3 = 3$	$1632 + 20 = 1652$	$983 + 1 = 984$
$3 : 3 = 1$	$1652 - 1 = 1651$	$984 * -3 = -2952$
$1 + 4 = 5$	$1651 + -14 = 1637$	$-2952 + -12 = -2964$
$5 - -7 = 12$	$1637 - 4 = 1633$	$-2964 : 6 = -494$
$12 + 7 = 19$	$1633 * -4 = -6532$	$-494 + -10 = -504$
$19 + -6 = 13$	$-6532 + -15 = -6547$	$-504 : 2 = -252$
$13 + 8 = 21$	$-6547 + 3 = -6544$	$-252 : 7 = -36$
$21 - 12 = 9$	$-6544 : 4 = -1636$	$-36 * 2 = -72$
$9 * 5 = 45$	$-1636 : 4 = -409$	$-72 + 14 = -58$
$45 : 9 = 5$	$-409 * 0 = 0$	$-58 * 3 = -174$
$5 + 14 = 19$	$0 + -8 = -8$	$-174 * 5 = -870$
$19 * -3 = -57$	$-8 + 2 = -6$	$-870 : 3 = -290$
$-57 * 5 = -285$	$-6 * -2 = 12$	$-290 + 14 = -276$
$-285 * 0 = 0$	$12 + 9 = 21$	$-276 + 4 = -272$
$0 + 15 = 15$	$21 + -5 = 16$	$-272 * 4 = -1088$
$15 - -9 = 24$	$16 * 3 = 48$	$-1088 + 0 = -1088$
$24 * -4 = -96$	$48 - 12 = 36$	$-1088 * 0 = 0$
$-96 + 20 = -76$	$36 - -6 = 42$	$0 + -9 = -9$
$-76 + -17 = -93$	$42 * 1 = 42$	$-9 - -18 = 9$
$-93 * -3 = 279$	$42 : 7 = 6$	$9 * -3 = -27$
$279 - -10 = 289$	$6 + -15 = -9$	$-27 : 3 = -9$
$289 - 17 = 272$	$-9 + 4 = -5$	$-9 * -2 = 18$
$272 * 4 = 1088$	$-5 - -11 = 6$	
	$14 + -1 = 13$	

Kopfrechnen mittel(92)

$17 * -4 = -68$	$20 : 5 = 4$	$8 : 4 = 2$
$-68 : 4 = -17$	$4 + -17 = -13$	$2 : 2 = 1$
$-17 + -19 = -36$	$-13 + 11 = -2$	$1 * -4 = -4$
$-36 + 20 = -16$	$-2 : 2 = -1$	$-4 + 17 = 13$
$-16 + -12 = -28$	$-1 * -4 = 4$	$13 + 1 = 14$
$-28 * 1 = -28$	$4 * -1 = -4$	$14 + -9 = 5$
$-28 : 4 = -7$	$-4 - -14 = 10$	$5 * 5 = 25$
$-7 : 7 = -1$	$10 + 13 = 23$	$25 * 2 = 50$
$-1 * 3 = -3$	$23 - -13 = 36$	$50 : 5 = 10$
$-3 * 3 = -9$	$36 * -4 = -144$	$10 + 4 = 14$
$-9 * 5 = -45$	$-144 : 12 = -12$	$14 - 13 = 1$
$-45 + -3 = -48$	$-12 + 12 = 0$	$1 * -4 = -4$
$-48 : 2 = -24$	$0 + 19 = 19$	$-4 * 1 = -4$
$-24 + 14 = -10$	$19 + 9 = 28$	$-4 * 0 = 0$
$-10 * 2 = -20$	$28 : 7 = 4$	$0 + 15 = 15$
$-20 + 19 = -1$	$4 : 4 = 1$	$15 - -3 = 18$
$-1 + -1 = -2$	$1 - -3 = 4$	$18 * -3 = -54$
$-2 : 2 = -1$	$4 : 4 = 1$	$-54 + 10 = -44$
$-1 + 3 = 2$	$1 + 11 = 12$	$-44 : 11 = -4$
$2 + 13 = 15$	$12 * 3 = 36$	$-4 : 4 = -1$
$15 - -11 = 26$	$36 : 6 = 6$	$-1 + -17 = -18$
$26 : 2 = 13$	$6 * 0 = 0$	$-18 * 1 = -18$
$13 : 13 = 1$	$0 + -19 = -19$	$-18 + -2 = -20$
$1 * 5 = 5$	$-19 * -1 = 19$	$-20 : 2 = -10$
$5 + 7 = 12$	$19 + 3 = 22$	$-10 * 5 = -50$
$12 - 6 = 6$	$22 - -2 = 24$	$-50 : 5 = -10$
$6 - -5 = 11$	$24 : 2 = 12$	$-10 : 10 = -1$
$11 + 13 = 24$	$12 * 2 = 24$	$-1 * -1 = 1$
$24 : 2 = 12$	$24 * 3 = 72$	$1 * -2 = -2$
$12 * 2 = 24$	$72 : 8 = 9$	$-2 * 0 = 0$
$24 * 0 = 0$	$9 * 3 = 27$	$0 + 10 = 10$
$0 + -12 = -12$	$27 * 1 = 27$	$10 - 9 = 1$
$-12 : 3 = -4$	$27 - 1 = 26$	$1 + 13 = 14$
$-4 * 4 = -16$	$26 : 2 = 13$	$14 * 4 = 56$
$-16 * 5 = -80$	$13 + -11 = 2$	$56 - -16 = 72$
$-80 + 13 = -67$	$2 - -9 = 11$	$72 - 15 = 57$
$-67 + 4 = -63$	$11 - -8 = 19$	$57 * 0 = 0$
$-63 : 3 = -21$	$19 - -10 = 29$	
	$9 + -1 = 8$	

Kopfrechnen mittel(93)

$14 + 3 = 17$	$8 - -4 = 12$	$72 - -14 = 86$
$17 - 14 = 3$	$12 : 6 = 2$	$86 - -8 = 94$
$3 : 3 = 1$	$2 : 2 = 1$	$94 + -4 = 90$
$1 + 18 = 19$	$1 + -9 = -8$	$90 + -12 = 78$
$19 * 4 = 76$	$-8 * 0 = 0$	$78 * -2 = -156$
$76 + 10 = 86$	$0 + -18 = -18$	$-156 * 1 = -156$
$86 * 3 = 258$	$-18 + -1 = -19$	$-156 * 4 = -624$
$258 * 2 = 516$	$-19 * 4 = -76$	$-624 : 12 = -52$
$516 + -14 = 502$	$-76 * 2 = -152$	$-52 : 2 = -26$
$502 + 10 = 512$	$-152 : 8 = -19$	$-26 + 5 = -21$
$512 * 2 = 1024$	$-19 + 9 = -10$	$-21 * -4 = 84$
$1024 * -2 = -2048$	$-10 * 0 = 0$	$84 + -10 = 74$
$-2048 * -3 = 6144$	$0 + 19 = 19$	$74 : 2 = 37$
$6144 * 2 = 12288$	$19 * 3 = 57$	$37 * -4 = -148$
$12288 * 2 = 24576$	$57 * -3 = -171$	$-148 * -2 = 296$
$24576 - 15 = 24561$	$-171 * 0 = 0$	$296 * -1 = -296$
$24561 * 4 = 98244$	$0 + 12 = 12$	$-296 + -16 = -312$
$98244 + -15 = 98229$	$12 * -4 = -48$	$-312 : 13 = -24$
$98229 - 14 = 98215$	$-48 + -16 = -64$	$-24 : 3 = -8$
$98215 : 13 = 7555$	$-64 : 8 = -8$	$-8 : 2 = -4$
$7555 - -18 = 7573$	$-8 * 5 = -40$	$-4 * -3 = 12$
$7573 + -8 = 7565$	$-40 : 4 = -10$	$12 - 1 = 11$
$7565 * -1 = -7565$	$-10 + -17 = -27$	$11 : 11 = 1$
$-7565 : 5 = -1513$	$-27 : 9 = -3$	$1 * 3 = 3$
$-1513 * -2 = 3026$	$-3 * -1 = 3$	$3 : 3 = 1$
$3026 + 17 = 3043$	$3 * -2 = -6$	$1 * 1 = 1$
$3043 - 3 = 3040$	$-6 * 1 = -6$	$1 - -17 = 18$
$3040 - -3 = 3043$	$-6 - -17 = 11$	$18 : 9 = 2$
$3043 * -1 = -3043$	$11 * 0 = 0$	$2 - -10 = 12$
$-3043 * -1 = 3043$	$0 + -9 = -9$	$12 - 6 = 6$
$3043 + 9 = 3052$	$-9 : 3 = -3$	$6 * -4 = -24$
$3052 : 4 = 763$	$-3 * 2 = -6$	$-24 : 8 = -3$
$763 - 1 = 762$	$-6 + -12 = -18$	$-3 * -2 = 6$
$762 + 15 = 777$	$-18 : 6 = -3$	$6 * -2 = -12$
$777 * -4 = -3108$	$-3 * 4 = -12$	$-12 * -2 = 24$
$-3108 * -1 = 3108$	$-12 - -19 = 7$	$24 - -16 = 40$
$3108 - 16 = 3092$	$7 + 19 = 26$	$40 * -2 = -80$
$3092 * 2 = 6184$	$26 + -12 = 14$	
	$18 * 4 = 72$	

Kopfrechnen mittel(94)

$13 + -5 = 8$

$8 * -1 = -8$

$-8 * -3 = 24$

$24 + 13 = 37$

$37 - -9 = 46$

$46 + -10 = 36$

$36 - 1 = 35$

$35 * -4 = -140$

$-140 * 5 = -700$

$-700 : 2 = -350$

$-350 : 7 = -50$

$-50 + 1 = -49$

$-49 * -1 = 49$

$49 - -9 = 58$

$58 - -4 = 62$

$62 + -15 = 47$

$47 + -5 = 42$

$42 + -6 = 36$

$36 : 3 = 12$

$12 : 2 = 6$

$6 * -4 = -24$

$-24 * 2 = -48$

$-48 : 3 = -16$

$-16 : 8 = -2$

$-2 + -8 = -10$

$-10 + 20 = 10$

$10 : 2 = 5$

$5 - -15 = 20$

$20 : 5 = 4$

$4 : 2 = 2$

$2 + 2 = 4$

$4 : 2 = 2$

$2 - -4 = 6$

$6 - 4 = 2$

$2 * -1 = -2$

$-2 + -1 = -3$

$-3 * 3 = -9$

$-9 + 1 = -8$

$11 + 1 = 12$

$12 - -5 = 17$

$17 - -13 = 30$

$30 + 5 = 35$

$35 * 2 = 70$

$70 : 5 = 14$

$14 : 2 = 7$

$7 + 8 = 15$

$15 * -4 = -60$

$-60 + -17 = -77$

$-77 * -2 = 154$

$154 + -19 = 135$

$135 : 5 = 27$

$27 : 9 = 3$

$3 + 4 = 7$

$7 - -19 = 26$

$26 - -2 = 28$

$28 * 0 = 0$

$0 + 4 = 4$

$4 + -12 = -8$

$-8 : 2 = -4$

$-4 + 19 = 15$

$15 + -16 = -1$

$-1 * -4 = 4$

$4 - -6 = 10$

$10 : 2 = 5$

$5 + 10 = 15$

$15 : 3 = 5$

$5 * 1 = 5$

$5 * 3 = 15$

$15 + -14 = 1$

$1 + -14 = -13$

$-13 : 13 = -1$

$-1 + 12 = 11$

$11 * -3 = -33$

$-33 : 3 = -11$

$-11 * -2 = 22$

$22 + -15 = 7$

$19 * 1 = 19$

$19 + -8 = 11$

$11 - -18 = 29$

$29 + -4 = 25$

$25 - 3 = 22$

$22 * -4 = -88$

$-88 * 2 = -176$

$-176 + 6 = -170$

$-170 + -8 = -178$

$-178 : 2 = -89$

$-89 + 8 = -81$

$-81 + -19 = -100$

$-100 + 18 = -82$

$-82 : 2 = -41$

$-41 * 1 = -41$

$-41 * 0 = 0$

$0 + 4 = 4$

$4 + 17 = 21$

$21 * -2 = -42$

$-42 : 7 = -6$

$-6 - -19 = 13$

$13 : 13 = 1$

$1 + -13 = -12$

$-12 * -2 = 24$

$24 * -4 = -96$

$-96 : 12 = -8$

$-8 - -13 = 5$

$5 : 5 = 1$

$1 + 19 = 20$

$20 - 9 = 11$

$11 * -1 = -11$

$-11 - -16 = 5$

$5 + 7 = 12$

$12 : 12 = 1$

$1 - -19 = 20$

$20 : 5 = 4$

$4 : 4 = 1$

$1 + 6 = 7$

Kopfrechnen mittel(95)

$10 + 19 = 29$	$8 : 2 = 4$	$5 + 9 = 14$
$29 + -2 = 27$	$4 + -13 = -9$	$14 + -2 = 12$
$27 * 0 = 0$	$-9 + 13 = 4$	$12 - 1 = 11$
$0 + -19 = -19$	$4 * -1 = -4$	$11 + -5 = 6$
$-19 + -16 = -35$	$-4 * -2 = 8$	$6 + -3 = 3$
$-35 * -3 = 105$	$8 : 8 = 1$	$3 + 3 = 6$
$105 - -18 = 123$	$1 - -4 = 5$	$6 + -19 = -13$
$123 * 3 = 369$	$5 + 17 = 22$	$-13 * 2 = -26$
$369 * -4 = -1476$	$22 - -18 = 40$	$-26 : 13 = -2$
$-1476 * 5 = -7380$	$40 : 10 = 4$	$-2 - -11 = 9$
$-7380 : 12 = -615$	$4 + 4 = 8$	$9 - 1 = 8$
$-615 * 3 = -1845$	$8 * 2 = 16$	$8 + -17 = -9$
$-1845 : 5 = -369$	$16 * -4 = -64$	$-9 + -2 = -11$
$-369 * 4 = -1476$	$-64 + 17 = -47$	$-11 + -16 = -27$
$-1476 * -2 = 2952$	$-47 + -10 = -57$	$-27 + -14 = -41$
$2952 + 18 = 2970$	$-57 * -4 = 228$	$-41 + 12 = -29$
$2970 * -3 = -8910$	$228 + -1 = 227$	$-29 * 0 = 0$
$-8910 * -4 = 35640$	$227 + -2 = 225$	$0 + 11 = 11$
$35640 : 2 = 17820$	$225 - -7 = 232$	$11 * -4 = -44$
$17820 : 9 = 1980$	$232 : 4 = 58$	$-44 + -8 = -52$
$1980 - 1 = 1979$	$58 + 18 = 76$	$-52 * 3 = -156$
$1979 + -5 = 1974$	$76 : 2 = 38$	$-156 + 19 = -137$
$1974 : 2 = 987$	$38 - 0 = 38$	$-137 + 13 = -124$
$987 : 3 = 329$	$38 : 2 = 19$	$-124 : 4 = -31$
$329 - 1 = 328$	$19 * 0 = 0$	$-31 * -1 = 31$
$328 + 20 = 348$	$0 + -19 = -19$	$31 - -2 = 33$
$348 * -2 = -696$	$-19 + 7 = -12$	$33 * 5 = 165$
$-696 * 0 = 0$	$-12 : 3 = -4$	$165 - 5 = 160$
$0 + -19 = -19$	$-4 * -1 = 4$	$160 - 7 = 153$
$-19 + 20 = 1$	$4 + 15 = 19$	$153 : 3 = 51$
$1 * 4 = 4$	$19 + 1 = 20$	$51 + -16 = 35$
$4 * 0 = 0$	$20 + -12 = 8$	$35 - -14 = 49$
$0 + -10 = -10$	$8 : 4 = 2$	$49 + -8 = 41$
$-10 + -10 = -20$	$2 * -3 = -6$	$41 * 5 = 205$
$-20 : 10 = -2$	$-6 : 2 = -3$	$205 + 2 = 207$
$-2 * 4 = -8$	$-3 - -9 = 6$	$207 + -2 = 205$
$-8 + 16 = 8$	$6 + 6 = 12$	$205 - -18 = 223$
$8 + 5 = 13$	$12 + 6 = 18$	
	$10 : 2 = 5$	

Kopfrechnen mittel(96)

$$\begin{aligned}12 : 2 &= 6 \\6 * 0 &= 0 \\0 + 3 &= 3 \\3 + -9 &= -6 \\-6 + -17 &= -23 \\-23 * 0 &= 0 \\0 + 12 &= 12 \\12 : 2 &= 6 \\6 - -1 &= 7 \\7 + -13 &= -6 \\-6 + -16 &= -22 \\-22 * 0 &= 0 \\0 + -11 &= -11 \\-11 - -15 &= 4 \\4 : 4 &= 1 \\1 + -1 &= 0 \\0 + 9 &= 9 \\9 + -10 &= -1 \\-1 - -7 &= 6 \\6 + -8 &= -2 \\-2 + -1 &= -3 \\-3 + 19 &= 16 \\16 : 8 &= 2 \\2 * -3 &= -6 \\-6 + 3 &= -3 \\-3 * 2 &= -6 \\-6 - -11 &= 5 \\5 - 2 &= 3 \\3 - -5 &= 8 \\8 : 8 &= 1 \\1 * -1 &= -1 \\-1 + 20 &= 19 \\19 + 17 &= 36 \\36 * 5 &= 180 \\180 : 4 &= 45 \\45 * 0 &= 0 \\0 + -5 &= -5 \\-5 * -2 &= 10\end{aligned}$$

$$\begin{aligned}6 * 5 &= 30 \\30 * -1 &= -30 \\-30 * 0 &= 0 \\0 + 9 &= 9 \\9 * 1 &= 9 \\9 : 9 &= 1 \\1 - -11 &= 12 \\12 * 5 &= 60 \\60 - 1 &= 59 \\59 * 3 &= 177 \\177 - 18 &= 159 \\159 * -2 &= -318 \\-318 : 2 &= -159 \\-159 : 3 &= -53 \\-53 * -1 &= 53 \\53 + 19 &= 72 \\72 - 4 &= 68 \\68 - -18 &= 86 \\86 - 6 &= 80 \\80 * -2 &= -160 \\-160 * 0 &= 0 \\0 + -17 &= -17 \\-17 * -2 &= 34 \\34 + -7 &= 27 \\27 : 3 &= 9 \\9 : 3 &= 3 \\3 - 0 &= 3 \\3 + -10 &= -7 \\-7 * 5 &= -35 \\-35 + -16 &= -51 \\-51 + 11 &= -40 \\-40 * -3 &= 120 \\120 : 4 &= 30 \\30 : 5 &= 6 \\6 * 1 &= 6 \\6 * 0 &= 0 \\0 + 5 &= 5 \\5 + -2 &= 3 \\15 : 3 &= 5\end{aligned}$$

$$\begin{aligned}5 * 4 &= 20 \\20 * 1 &= 20 \\20 * 0 &= 0 \\0 + 13 &= 13 \\13 - 12 &= 1 \\1 - -3 &= 4 \\4 - -16 &= 20 \\20 : 4 &= 5 \\5 : 5 &= 1 \\1 * -3 &= -3 \\-3 * -1 &= 3 \\3 - -1 &= 4 \\4 + 15 &= 19 \\19 + 4 &= 23 \\23 + -4 &= 19 \\19 - -16 &= 35 \\35 : 5 &= 7 \\7 * 2 &= 14 \\14 * -3 &= -42 \\-42 : 2 &= -21 \\-21 * 3 &= -63 \\-63 : 3 &= -21 \\-21 : 7 &= -3 \\-3 : 3 &= -1 \\-1 - -18 &= 17 \\17 - 0 &= 17 \\17 * 1 &= 17 \\17 + -11 &= 6 \\6 - -16 &= 22 \\22 : 11 &= 2 \\2 * -3 &= -6 \\-6 * 5 &= -30 \\-30 * -2 &= 60 \\60 + -14 &= 46 \\46 * 2 &= 92 \\92 : 2 &= 46 \\46 + -8 &= 38\end{aligned}$$

Kopfrechnen mittel(97)

$19 * -4 = -76$	$1 + 16 = 17$	$1 + 9 = 10$
$-76 * 1 = -76$	$17 * 0 = 0$	$10 : 5 = 2$
$-76 + 15 = -61$	$0 + 2 = 2$	$2 + 10 = 12$
$-61 + 8 = -53$	$2 - -17 = 19$	$12 - -19 = 31$
$-53 + 13 = -40$	$19 * 0 = 0$	$31 - 5 = 26$
$-40 + 5 = -35$	$0 + -7 = -7$	$26 * 4 = 104$
$-35 * 2 = -70$	$-7 : 7 = -1$	$104 - -11 = 115$
$-70 : 2 = -35$	$-1 * 4 = -4$	$115 + -17 = 98$
$-35 * -1 = 35$	$-4 + -4 = -8$	$98 + -7 = 91$
$35 * -1 = -35$	$-8 - -13 = 5$	$91 * 1 = 91$
$-35 : 7 = -5$	$5 * -2 = -10$	$91 * 5 = 455$
$-5 + 13 = 8$	$-10 + 15 = 5$	$455 - -8 = 463$
$8 + 2 = 10$	$5 * 4 = 20$	$463 * -3 = -1389$
$10 - -16 = 26$	$20 - -17 = 37$	$-1389 : 3 = -463$
$26 + 13 = 39$	$37 - 12 = 25$	$-463 + 7 = -456$
$39 * 5 = 195$	$25 - -18 = 43$	$-456 + -10 = -466$
$195 - -18 = 213$	$43 * -4 = -172$	$-466 : 2 = -233$
$213 - -17 = 230$	$-172 + 14 = -158$	$-233 * -1 = 233$
$230 + -9 = 221$	$-158 * 1 = -158$	$233 * -1 = -233$
$221 * -1 = -221$	$-158 * -1 = 158$	$-233 + 14 = -219$
$-221 + 1 = -220$	$158 : 2 = 79$	$-219 * -4 = 876$
$-220 + 17 = -203$	$79 * -1 = -79$	$876 - 17 = 859$
$-203 + 6 = -197$	$-79 + -2 = -81$	$859 - -12 = 871$
$-197 * 4 = -788$	$-81 + 10 = -71$	$871 + 4 = 875$
$-788 * -1 = 788$	$-71 * -3 = 213$	$875 + 2 = 877$
$788 : 4 = 197$	$213 * -4 = -852$	$877 - 10 = 867$
$197 * 4 = 788$	$-852 : 2 = -426$	$867 - -17 = 884$
$788 : 4 = 197$	$-426 + 13 = -413$	$884 * 4 = 3536$
$197 - -1 = 198$	$-413 : 7 = -59$	$3536 * 5 = 17680$
$198 * -1 = -198$	$-59 * 3 = -177$	$17680 + 10 = 17690$
$-198 : 3 = -66$	$-177 + 17 = -160$	$17690 * 3 = 53070$
$-66 * -1 = 66$	$-160 + -3 = -163$	$53070 - 17 = 53053$
$66 : 11 = 6$	$-163 * 4 = -652$	$53053 : 7 = 7579$
$6 : 2 = 3$	$-652 : 2 = -326$	$7579 + 9 = 7588$
$3 + -8 = -5$	$-326 + -18 = -344$	$7588 : 7 = 1084$
$-5 + 19 = 14$	$-344 + 6 = -338$	$1084 + 9 = 1093$
$14 * 4 = 56$	$-338 + -18 = -356$	$1093 * 4 = 4372$
$56 - -6 = 62$	$-356 + 1 = -355$	
	$8 : 8 = 1$	

Kopfrechnen mittel(98)

$16 : 8 = 2$	$10 * 1 = 10$	$100 : 5 = 20$
$2 : 2 = 1$	$10 + -8 = 2$	$20 * 1 = 20$
$1 + -7 = -6$	$2 - -3 = 5$	$20 : 2 = 10$
$-6 - -14 = 8$	$5 : 5 = 1$	$10 * 0 = 0$
$8 : 8 = 1$	$1 * -1 = -1$	$0 + -10 = -10$
$1 + 5 = 6$	$-1 * 0 = 0$	$-10 : 10 = -1$
$6 + 10 = 16$	$0 + -7 = -7$	$-1 - -4 = 3$
$16 + 2 = 18$	$-7 * 0 = 0$	$3 * 0 = 0$
$18 * 2 = 36$	$0 + 10 = 10$	$0 + 16 = 16$
$36 + 15 = 51$	$10 - 4 = 6$	$16 - -11 = 27$
$51 + 7 = 58$	$6 : 2 = 3$	$27 + 8 = 35$
$58 + 11 = 69$	$3 * -1 = -3$	$35 * 5 = 175$
$69 : 3 = 23$	$-3 + -19 = -22$	$175 + -5 = 170$
$23 - -7 = 30$	$-22 : 2 = -11$	$170 + 7 = 177$
$30 + -17 = 13$	$-11 * 5 = -55$	$177 * -2 = -354$
$13 - -1 = 14$	$-55 : 11 = -5$	$-354 : 6 = -59$
$14 : 2 = 7$	$-5 + 13 = 8$	$-59 * -1 = 59$
$7 - -16 = 23$	$8 + 11 = 19$	$59 * 1 = 59$
$23 - 20 = 3$	$19 + 0 = 19$	$59 - -2 = 61$
$3 + 6 = 9$	$19 + 16 = 35$	$61 + 7 = 68$
$9 * 4 = 36$	$35 + -18 = 17$	$68 - 6 = 62$
$36 * 3 = 108$	$17 * -3 = -51$	$62 - 1 = 61$
$108 - 9 = 99$	$-51 : 3 = -17$	$61 + -7 = 54$
$99 : 9 = 11$	$-17 * -2 = 34$	$54 : 9 = 6$
$11 + -3 = 8$	$34 : 2 = 17$	$6 + -9 = -3$
$8 + 15 = 23$	$17 - 1 = 16$	$-3 * 2 = -6$
$23 - 16 = 7$	$16 * -3 = -48$	$-6 + 11 = 5$
$7 * -1 = -7$	$-48 + -12 = -60$	$5 - -5 = 10$
$-7 * -2 = 14$	$-60 + 10 = -50$	$10 : 2 = 5$
$14 + -10 = 4$	$-50 : 2 = -25$	$5 : 5 = 1$
$4 + 13 = 17$	$-25 * 5 = -125$	$1 - -2 = 3$
$17 * -2 = -34$	$-125 : 5 = -25$	$3 * -4 = -12$
$-34 + -4 = -38$	$-25 + 16 = -9$	$-12 - -15 = 3$
$-38 : 2 = -19$	$-9 + -2 = -11$	$3 - -1 = 4$
$-19 + -3 = -22$	$-11 + -1 = -12$	$4 + -6 = -2$
$-22 + -6 = -28$	$-12 + 4 = -8$	$-2 * 0 = 0$
$-28 + -14 = -42$	$-8 : 4 = -2$	$0 + 6 = 6$
$-42 + 16 = -26$	$-2 + 13 = 11$	
	$20 * 5 = 100$	

Kopfrechnen mittel(99)

$3 + 14 = 17$	$13 * -2 = -26$	$6 * 4 = 24$
$17 * 3 = 51$	$-26 : 13 = -2$	$24 : 3 = 8$
$51 - 15 = 36$	$-2 - -4 = 2$	$8 : 8 = 1$
$36 + -17 = 19$	$2 + -9 = -7$	$1 * 4 = 4$
$19 - 12 = 7$	$-7 : 7 = -1$	$4 : 2 = 2$
$7 - -17 = 24$	$-1 + 6 = 5$	$2 + -9 = -7$
$24 : 2 = 12$	$5 - -12 = 17$	$-7 + -3 = -10$
$12 + -4 = 8$	$17 - 4 = 13$	$-10 + 13 = 3$
$8 * 4 = 32$	$13 - -8 = 21$	$3 + -3 = 0$
$32 * 5 = 160$	$21 + -1 = 20$	$0 + 9 = 9$
$160 + 9 = 169$	$20 : 4 = 5$	$9 + -16 = -7$
$169 + -8 = 161$	$5 + 11 = 16$	$-7 : 7 = -1$
$161 - -4 = 165$	$16 + -9 = 7$	$-1 + -14 = -15$
$165 + 2 = 167$	$7 + 6 = 13$	$-15 : 3 = -5$
$167 * -1 = -167$	$13 * -2 = -26$	$-5 * 3 = -15$
$-167 * 1 = -167$	$-26 + -2 = -28$	$-15 - -17 = 2$
$-167 + 0 = -167$	$-28 * 2 = -56$	$2 + 1 = 3$
$-167 * 3 = -501$	$-56 * 2 = -112$	$3 + 8 = 11$
$-501 + -2 = -503$	$-112 + 0 = -112$	$11 - -18 = 29$
$-503 + 6 = -497$	$-112 * 0 = 0$	$29 * 2 = 58$
$-497 : 7 = -71$	$0 + 5 = 5$	$58 - -16 = 74$
$-71 + 6 = -65$	$5 + -18 = -13$	$74 + -4 = 70$
$-65 : 5 = -13$	$-13 + 12 = -1$	$70 : 5 = 14$
$-13 + -18 = -31$	$-1 * 4 = -4$	$14 - -11 = 25$
$-31 + 14 = -17$	$-4 * -2 = 8$	$25 + 8 = 33$
$-17 * -2 = 34$	$8 * -3 = -24$	$33 : 11 = 3$
$34 * -2 = -68$	$-24 : 8 = -3$	$3 - -17 = 20$
$-68 : 4 = -17$	$-3 * 2 = -6$	$20 + -15 = 5$
$-17 * -2 = 34$	$-6 * 2 = -12$	$5 : 5 = 1$
$34 + -19 = 15$	$-12 * -4 = 48$	$1 - -10 = 11$
$15 - -14 = 29$	$48 - -13 = 61$	$11 + 0 = 11$
$29 - -2 = 31$	$61 * -4 = -244$	$11 + 3 = 14$
$31 + 20 = 51$	$-244 + -5 = -249$	$14 * -1 = -14$
$51 - 9 = 42$	$-249 + -6 = -255$	$-14 + 4 = -10$
$42 * 0 = 0$	$-255 + 11 = -244$	$-10 - -17 = 7$
$0 + -19 = -19$	$-244 : 4 = -61$	$7 + -16 = -9$
$-19 + -1 = -20$	$-61 * 4 = -244$	$-9 - -19 = 10$
$-20 + 5 = -15$	$-244 * -1 = 244$	
	$6 * 1 = 6$	

Kopfrechnen mittel(100)

$17 - 13 = 4$	$13 * 3 = 39$	$16 * 4 = 64$
$4 + 10 = 14$	$39 : 13 = 3$	$64 + 0 = 64$
$14 + 20 = 34$	$3 * 0 = 0$	$64 : 4 = 16$
$34 + 12 = 46$	$0 + 20 = 20$	$16 - 6 = 10$
$46 * 5 = 230$	$20 + 9 = 29$	$10 + 3 = 13$
$230 + -15 = 215$	$29 + 18 = 47$	$13 * 5 = 65$
$215 : 5 = 43$	$47 + -17 = 30$	$65 + -17 = 48$
$43 * -2 = -86$	$30 : 5 = 6$	$48 * 1 = 48$
$-86 + -15 = -101$	$6 * -4 = -24$	$48 : 2 = 24$
$-101 + -18 = -119$	$-24 * -4 = 96$	$24 + 9 = 33$
$-119 * -2 = 238$	$96 - 1 = 95$	$33 * -1 = -33$
$238 : 2 = 119$	$95 + 10 = 105$	$-33 * -1 = 33$
$119 - -19 = 138$	$105 : 7 = 15$	$33 - -12 = 45$
$138 - 18 = 120$	$15 - -11 = 26$	$45 + 12 = 57$
$120 + 19 = 139$	$26 : 2 = 13$	$57 + -15 = 42$
$139 + 0 = 139$	$13 * 3 = 39$	$42 + 11 = 53$
$139 - 15 = 124$	$39 : 13 = 3$	$53 * 1 = 53$
$124 - -12 = 136$	$3 + 11 = 14$	$53 + 14 = 67$
$136 - -5 = 141$	$14 + -3 = 11$	$67 - 18 = 49$
$141 : 3 = 47$	$11 - -8 = 19$	$49 * 0 = 0$
$47 + -19 = 28$	$19 - -4 = 23$	$0 + 16 = 16$
$28 - -15 = 43$	$23 + 11 = 34$	$16 + -6 = 10$
$43 * 5 = 215$	$34 - 1 = 33$	$10 + -7 = 3$
$215 * 1 = 215$	$33 : 3 = 11$	$3 + -14 = -11$
$215 * -1 = -215$	$11 - -19 = 30$	$-11 * 0 = 0$
$-215 + 8 = -207$	$30 : 2 = 15$	$0 + -3 = -3$
$-207 * 0 = 0$	$15 * -2 = -30$	$-3 * -3 = 9$
$0 + -18 = -18$	$-30 + 16 = -14$	$9 - -8 = 17$
$-18 + 19 = 1$	$-14 * -2 = 28$	$17 - 12 = 5$
$1 + 13 = 14$	$28 * -4 = -112$	$5 - -6 = 11$
$14 * 4 = 56$	$-112 * 2 = -224$	$11 : 11 = 1$
$56 - 19 = 37$	$-224 + 16 = -208$	$1 * -4 = -4$
$37 - -2 = 39$	$-208 * 3 = -624$	$-4 + -9 = -13$
$39 - 18 = 21$	$-624 + -5 = -629$	$-13 : 13 = -1$
$21 + -4 = 17$	$-629 + 11 = -618$	$-1 * 2 = -2$
$17 - 7 = 10$	$-618 * 0 = 0$	$-2 * 0 = 0$
$10 : 10 = 1$	$0 + -18 = -18$	$0 + 0 = 0$
$1 + -14 = -13$	$-18 : 3 = -6$	
	$12 - -4 = 16$	