

Rechnen mit ganzen Zahlen

Potenz vor Punkt vor Strich - Zwischenschritte!

| | | |
|----|-------------------------------------|---|
| 1 | $9^2 + (-1) \cdot 47 =$ | $81 + (-47) = 81 - 47 = 34$ |
| 2 | $(-7)^2 + 14 =$ | $49 + 14 = 63$ |
| 3 | $74 : 37 + (-4) =$ | $2 - 4 = -2$ |
| 4 | $(-5)^2 - (-2) \cdot 20 =$ | $25 - (-40) = 25 + 40 = 65$ |
| 5 | $7^2 + 2 \cdot (-2)^2 =$ | $49 + 2 \cdot 4 = 49 + 8 = 57$ |
| 6 | $(-7)^2 - (-8) =$ | $49 + 8 = 57$ |
| 7 | $8 \cdot (-3)^2 + 4^2 =$ | $8 \cdot 9 + 16 = 72 + 16 = 88$ |
| 8 | $3 \cdot (-4) + (-4) \cdot 9 =$ | $-12 + (-36) = -12 - 36 = -48$ |
| 9 | $32 + 8^2 \cdot (-2) =$ | $32 + 64 \cdot (-2) = 32 + (-128) = 32 - 128 = -96$ |
| 10 | $(17 + 16) + (13 - 15) =$ | $33 + (-2) = 33 - 2 = 31$ |
| 11 | $9 \cdot (-2)^2 - 3^3 =$ | $9 \cdot 4 - 27 = 36 - 27 = 9$ |
| 12 | $(14 - 4) + (20 - 12) =$ | $10 + 8 = 18$ |
| 13 | $(-7)^2 : (-49) =$ | $49 : (-49) = -1$ |
| 14 | $-11 - (9 - 27) =$ | $-11 - (-18) = -11 + 18 = 7$ |
| 15 | $-5 - (10 - 17) =$ | $-5 - (-7) = -5 + 7 = 2$ |
| 16 | $84 : 2 + 10 =$ | $42 + 10 = 52$ |
| 17 | $-2 \cdot 15 + 6 =$ | $-30 + 6 = -24$ |
| 18 | $-2 \cdot (-9) + (-9) \cdot (-3) =$ | $18 + 27 = 45$ |
| 19 | $95 : (-19) + (-1) =$ | $-5 - 1 = -6$ |
| 20 | $(18 - 10) + (14 - 2) =$ | $8 + 12 = 20$ |
| 21 | $2 \cdot (-38) + (-10)^2 =$ | $-76 + 100 = 24$ |
| 22 | $(-6)^2 + (-2) \cdot (-7)^2 =$ | $36 + (-2) \cdot 49 = 36 - 98 = -62$ |
| 23 | $-2 + 99 : 3 =$ | $-2 + 33 = 31$ |
| 24 | $100 : (-5) - (-9) =$ | $-20 + 9 = -11$ |
| 25 | $12 + (-5 - 13) =$ | $12 + (-18) = 12 - 18 = -6$ |
| 26 | $(-2)^2 - 31 \cdot (-2) =$ | $4 - (-62) = 4 + 62 = 66$ |
| 27 | $3^2 + 4 \cdot 19 =$ | $9 + 76 = 85$ |
| 28 | $-17 + (-13) \cdot 5 =$ | $-17 + (-65) = -17 - 65 = -82$ |

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| 29 | $6 \cdot (-3)^2 - 10^2 =$ | $6 \cdot 9 - 100 = 54 - 100 = -46$ |
| 30 | $78 - 5^2 \cdot 4 =$ | $78 - 25 \cdot 4 = 78 - 100 = -22$ |
| 31 | $9^2 - (-4) \cdot 2^2 =$ | $81 - (-4) \cdot 4 = 81 - (-16) = 81 + 16 = 97$ |
| 32 | $(-6)^2 - (-2) =$ | $36 + 2 = 38$ |
| 33 | $(-6) \cdot (-2) - (-2)^2 =$ | $12 - 4 = 8$ |
| 34 | $-(-12 + 10) - (7 - 5) =$ | $-(-2) - 2 = 2 - 2 = 0$ |
| 35 | $6^2 : (-3) =$ | $36 : (-3) = -12$ |
| 36 | $-7 + (-6)^2 =$ | $-7 + 36 = 29$ |
| 37 | $-9 + (-2)^2 \cdot (-2) =$ | $-9 + 4 \cdot (-2) = -9 - 8 = -17$ |
| 38 | $-1 \cdot 20 - (-4) \cdot (-7) =$ | $-20 - (28) = -20 - 28 = -48$ |
| 39 | $(-5)^2 \cdot (-3) + (-11) =$ | $25 \cdot (-3) - 11 = -75 - 11 = -86$ |
| 40 | $14 - (-4) \cdot 17 =$ | $14 - (-68) = 14 + 68 = 82$ |
| 41 | $-52 : 13 + 4 =$ | $-4 + 4 = 0$ |
| 42 | $76 : 4 - 10 =$ | $19 - 10 = 9$ |
| 43 | $82 : (-41) - (-8) =$ | $-2 + 8 = 6$ |
| 44 | $(-8)^2 - (-63) \cdot (-1) =$ | $64 - (63) = 64 - 63 = 1$ |
| 45 | $(-1)^3 \cdot 9 - (-45) =$ | $(-1) \cdot 9 + 45 = -9 + 45 = 36$ |
| 46 | $-19 + (-9)^2 =$ | $-19 + 81 = 62$ |
| 47 | $9 + 2^3 \cdot 4 =$ | $9 + 2^3 \cdot 4 = 9 + 32 = 41$ |
| 48 | $(-5)^3 + 8 \cdot 2^2 =$ | $-125 + 8 \cdot 4 = -125 + 32 = -93$ |
| 49 | $(-6)^2 - 4 \cdot (-2)^3 =$ | $36 - 4 \cdot (-8) = 36 + 32 = 68$ |
| 50 | $2 + (-46) : (-23) =$ | $2 + 2 = 4$ |

Name:

3.1 Potenzen und Grundoperationen mit ganzen Zahlen

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|----|--------------------|---|-------------------------------|
| 1 | $(-8)^2 : (-2)^2$ | = | $64 : 4 = 16$ |
| 2 | $(-24)^2 : (-4)^2$ | = | $576 : 16 = 36$ |
| 3 | $-36 - (-5)^2$ | = | $-36 - 25 = -61$ |
| 4 | $(-8)^2$ | = | 64 |
| 5 | $(-12)^2 : (-3)^2$ | = | $144 : 9 = 16$ |
| 6 | $(-8)^2 - (-11)^2$ | = | $64 - 121 = 57$ |
| 7 | $(-5)^2 + 27$ | = | $25 + 27 = 52$ |
| 8 | $(-8)^2 - (-10)^2$ | = | $64 - 100 = -36$ |
| 9 | $(-5)^2 + (-30)$ | = | $25 - 30 = -5$ |
| 10 | $(-4)^3 : (-2)^6$ | = | $-64 : 64 = -1$ |
| 11 | $(-3)^4 : 9$ | = | $81 : 9 = 9$ |
| 12 | $(-4)^2 - (-2)^3$ | = | $16 - (-8) = 16 + 8 = 24$ |
| 13 | $(-16)^2 : (-2)^8$ | = | $256 : 256 = 1$ |
| 14 | $(-7)^2 - (-9)^2$ | = | $49 - 81 = -32$ |
| 15 | $(-8)^2 - (-3)^2$ | = | $64 - 9 = 55$ |
| 16 | $(-18)^2 : (-36)$ | = | $324 : (-36) = -9$ |
| 17 | $22 - (-3)^3$ | = | $22 - (-27) = 22 + 27 = 49$ |
| 18 | $38 - (-6)^2$ | = | $38 - 36 = 2$ |
| 19 | $(-6)^3 + (-11)^2$ | = | $-216 + 121 = -95$ |
| 20 | $29 - (-8)^2$ | = | $29 - 64 = -35$ |
| 21 | $(-7)^1 : 7$ | = | $-7 : 7 = -1$ |
| 22 | $(-12)^2 : (-4)^2$ | = | $144 : 16 = 9$ |
| 23 | $(-5)^2 + (-8)^2$ | = | $25 + 64 = 89$ |
| 24 | $(-3)^2 + (-2)^6$ | = | $9 + 64 = 73$ |
| 25 | $(-11)^2 + (-4)^3$ | = | $121 + (-64) = 121 - 64 = 57$ |
| 26 | $(-10)^2 + (-4)^3$ | = | $100 + (-64) = 100 - 64 = 36$ |
| 27 | $(-12)^2 : 4$ | = | $144 : 4 = 36$ |
| 28 | $(-1)^{86}$ | = | 1 |
| 29 | $(-7)^2 - (-25)$ | = | $49 + 25 = 74$ |
| 30 | $(-6)^3 : (-2)^3$ | = | $-216 : -8 = 27$ |

Name:

Schritt für Schritt zum korrekten Ergebnis.

5.2 Rechnen mit ganzen Zahlen

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|----|---------------------------------|---|--|
| 1 | $-1 + (-97) : 97$ | = | $-1 + (-1) = -1 - 1 = -2$ |
| 2 | $(-5)^3 + (-6)$ | = | $-125 - 6 = -131$ |
| 3 | $(-2)^2 - 16$ | = | $4 - 16 = -12$ |
| 4 | $(-5)^2 \cdot (-4) + 16$ | = | $25 \cdot (-4) + 16 = -100 + 16 = -84$ |
| 5 | $81 : 3 - (-4)$ | = | $27 + 4 = 31$ |
| 6 | $6^2 + (-2) \cdot (-5)^2$ | = | $36 + (-2) \cdot 25 = 36 - 50 = -14$ |
| 7 | $(7 + 18) - (-12 - 11)$ | = | $15 - (-23) = 15 + 23 = 38$ |
| 8 | $(2 - 9) + (18 - 20)$ | = | $-7 + (-2) = -7 - 2 = -9$ |
| 9 | $6 - 19 \cdot 4$ | = | $6 - 76 = -70$ |
| 10 | $-(8^2) + 32 \cdot 3$ | = | $-64 + 96 = 32$ |
| 11 | $-84 : (-2) + (-9)$ | = | $42 - 9 = 33$ |
| 12 | $(17 + 2) - (-5 - 17)$ | = | $19 - (-22) = 19 + 22 = 41$ |
| 13 | $6^2 : (-12)$ | = | $36 : (-12) = -3$ |
| 14 | $20 \cdot (-2)^2 + (-5)^3$ | = | $20 \cdot 4 + (-125) = 80 - 125 = -45$ |
| 15 | $2 \cdot 6^2 - (-4)^2$ | = | $72 - 16 = 56$ |
| 16 | $-6 \cdot (-4) + 14 \cdot (-1)$ | = | $24 + (-14) = 24 - 14 = 10$ |
| 17 | $3 \cdot 3 + 8^2$ | = | $9 + 64 = 73$ |
| 18 | $2^3 + (-16) \cdot 2$ | = | $8 + (-32) = 8 - 32 = -24$ |
| 19 | $-19 \cdot 3 + (-9)$ | = | $-57 - 9 = -66$ |
| 20 | $(-3) \cdot (-3)^2 - (-5)^3$ | = | $(-3) \cdot 9 - (-125) = -27 + 125 = 98$ |
| 21 | $(-7)^2 + 5 \cdot (-16)$ | = | $49 - 80 = -31$ |
| 22 | $(-4)^3 : (-2)$ | = | $-64 : (-2) = 32$ |
| 23 | $(3 - 13) - (-9 - 8)$ | = | $-10 - (-17) = -10 + 17 = 7$ |
| 24 | $2 \cdot (-3) + 20 \cdot (-2)$ | = | $-6 + (-40) = -6 - 40 = -46$ |
| 25 | $-6 + (-48) : 8$ | = | $-6 + (-6) = -6 - 6 = -12$ |
| 26 | $4 + 10 \cdot (-6)$ | = | $4 + (-60) = 4 - 60 = -56$ |
| 27 | $-(7^2) : 7$ | = | $-49 : 7 = -7$ |
| 28 | $(-4) \cdot 20 + (-5)^2$ | = | $-80 + 25 = -55$ |
| 29 | $21 - (-2 - 27)$ | = | $21 - (-29) = 21 + 29 = 50$ |
| 30 | $-2 - (14 + 12)$ | = | $-2 - 26 = -28$ |