

Practice 1-5

Mixed Exercises

Simplify each expression.

- $(-2)(8)$
- $(-6)(-9)$
- $(-3)^4$
- -2^5
- $(6)(-8) + 30 \div (-6)$
- $(-14)^2$
- $2(-4)(-6)$
- $(-4)(-5)$
- $5(-6)$
- $(-8)(5)(-3)$
- -7^2
- -3^5
- $\frac{-68}{17}$
- $\frac{(-4)(-13)}{-26}$
- $\frac{225}{(-3)(-5)}$

Evaluate each expression.

- x^3 for $x = -5$
- $s^2t - 10$ for $s = -2$ and $t = 10$
- $-2m + 4n^2$ for $m = -6$ and $n = -5$
- $7v^2$ for $v = -7$
- $-cd^2$ for $c = 2$ and $d = -4$
- $(x + 4)^2$ for $x = -11$
- $\left(\frac{a}{b}\right)^2 + b^3$ for $a = 24$ and $b = -6$
- $4p^2 + 7q^3$ for $p = -3$ and $q = -2$
- $(e + f)^4$ for $e = -3$ and $f = 7$
- $5f^2 - z^2$ for $f = -1$ and $z = -4$

Simplify each expression.

- $2^4 - 3^2 + 5^2$
- $(-8)^2 - 4^3$
- $32 \div (-7 + 5)^3$
- $(-3)(14)$
- $18 + 4^2 \div (-8)$
- $26 \div (4 - (-9))$
- $4^3 - (2 - 5)^3$
- $-(-4)^3$
- $(-8)(-5)(-3)$
- $(-3)^2 - 4^2$
- $3 \times (-15)$
- $(-2)^6$
- $(-6)(15)$
- $\frac{-15}{(7 - 4)}$
- $\frac{195}{-13}$

Evaluate each expression.

- $(a + b)^2$ for $a = 6$ and $b = -8$
- $d^3 \div e$ for $d = -6$ and $e = -3$
- $(m + 5n)^3$ for $m = 2$ and $n = -1$
- $j^5 - 5k$ for $j = -4$ and $k = -1$
- $xy + z$ for $x = -4$, $y = 3$, and $z = -3$
- $4s \div (-3t)$ for $s = -6$ and $t = -2$
- $\frac{r^3}{s}$ for $r = -6$ and $s = -2$
- $\frac{-h^5}{-4}$ for $h = 4$

Find the mean rounded to the nearest integer.

- 5, 8, 2, -4, 7, -5
- 15, 18, -13, 14, -17, -9, 1, -8
- 30, -5, -18, 12, 6, 3, -19, 0, -3, 2
- 35, 27, -13, -19, 1, -3, 8, 15, -39
- 24, 7, 1, -9, -12, -32, 8, -11, 29, -11, -9
- 15, 19, -2, -7, -13, -21, 16, -22, 8, -9