

Integers:

a. $\frac{15}{-5} + 8 = 5$

b. $(22)(-3)(2) = -132$

c. $\frac{-75}{-25} \cdot (-4) = -12$

d. $2 + (-5)(-4) = 22$

e. $-9 - 4 - (-7) = -6$

f. $-22 - \frac{-18}{3} + 4 = -12$

g. $(2)(6)(-4) \div (3)(-2) = 32$

h. $2^5 = 32$

i. $(-4)^3 = -64$

j. $15 - (-3) \div (-6) = 13$

k. $8 - 5 + \frac{20}{2} = 13$

l. $\frac{-9}{-3} - 13 = -10$

m. $(2)(-2)(-1)(5)(-4)(2) = -160$
 $\quad \quad \quad \checkmark \quad \quad \checkmark \quad \quad \checkmark$
 $\quad \quad \quad -4 \quad \quad -5 \quad \quad -8$

n. $(-44) \div (-2) \div (-2) = -11$

o. $\frac{100}{-2-3} = -20$

Distributive Property:

Factored Form	Distributed Form	Simplified Form
a. $5(x - 11)$	$5(x) - 5(11)$	$5x - 55$
b. $x(x^2 + y - z)$	$x(x^2) + x(y) - x(z)$	$x^3 + xy - xz$
c. $m(n - 3)$	$m(n) - m(3)$	$mn - 3m$
d. $9(2r + 4s - 2t)$	$9(2r) + 9(4s) - 9(2t)$	$18r + 36s - 18t$
e. $2x(x + 3y)$	$2x(x) + 2x(3y)$	$2x^2 + 6xy$
f. $13(x - 3y + 2z)$	$13(x) - 13(3y) + 13(2z)$	$13x - 39y + 26z$
g. $x(4x + 3)$	$x(4x) + x(3)$	$4x^2 + 3x$
h. $y^2(y - 2)$	$y^2(y) - y^2(2)$	$y^3 - 2y^2$

Combine Like Terms:

a. $3x - 2y + 4 - 2x + 5y - 5$

b. $m + 2n - 4n + 6m + m$

c. $t - r + 5s - r + t - 2r$

d. $7 - y + 4 - y + 2 - 2y$

e. $x - y + x - y - 2x + 5y$

f. $x^2 + 4x - 2 + x^2 + 7x + 11$

$$\begin{array}{l} \boxed{x + 3y - 1} \\ \boxed{8m - 2n} \\ \boxed{-4r + 5s + 2t} \\ \boxed{-4y + 13} \\ \boxed{3y} \\ \boxed{2x^2 + 11x + 9} \end{array}$$