

1. List all factors of 48.
2. Consider a rectangle with sides 12 feet and 5 feet long.
 - a) Compute the perimeter of the rectangle. Include units in your computation and answer.
 - b) Compute the area of the rectangle. Include units in your computation and answer.
3. Simplify each of the following.

a) $-3 - (-5) + (-4) - 8$	g) $2^4 - 2(4^2 - 3(7 - 2^2))$	l) $\sqrt{16} + \sqrt{9}$
b) $-3 - [(-5) + (-4) - 8]$	h) $\frac{(2^4 - 2^3)(2^3 - 2^2)}{10 - 3^2 + 1}$	m) $\frac{20}{2} + 4$
c) $-3 - [(-5) + (-4)] - 8$	i) $\frac{3 \cdot 7 - 1^5}{2^3 - (3^2 - 1^2)}$	n) $\frac{20 + 4}{2}$
d) $12 - (-7 - (-5)) - 3^2$	j) $\sqrt{16} + 9$	o) $12 - 5 + 2$
e) $20 - (2 \cdot 5^2 - 7^2 + 4)$	k) $\sqrt{16 + 9}$	p) $\frac{3^3 - 2 \cdot 1^3}{2^3 + (-3)}$
4. Simplify the following expression. Show all steps.
$$10 - \frac{3^2 - 1^3}{5 - (-3)} - 2(3^2 - 2^3 + 1) - \frac{14}{2}$$