

- Find the average of all factors of 6.
- List the first ten prime numbers.
- Graph each of the following points on a coordinate system. What shape do these points form?
 $A(-4, -6)$, $B(0, -4)$, $C(2, -3)$, $D(4, -2)$, and $E(8, 0)$.
- Perform the following operations. Show all steps.

a) $18 - 2(-5) - 2(11 - 2(-5))$	d) $ -7 - 2 - 8 + 3 $	g) $ -7 - 2 - 8 + 3 $
b) $\frac{-3^2 + (-1)^3}{7 - 3(-1)^3}$	e) $ -7 - 2 - 8 + 3 $	h) $ -7 -2 - 8 + 3 $
c) $-2^2(24 - 2(-3) - 5(-2)^2) - 12$	f) $ -7 - 2 -8 + 3 $	i) $\sqrt{3\sqrt{49} - \sqrt{25}}$
- Evaluate $\frac{3xy + 2x^2 - 2y^2}{x + 2y}$ if

a) $x = 2$ and $y = -3$	b) $x = -1$ and $y = -2$	c) $x = -6$ and $y = 3$
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- Evaluate $-p^2 + |2pq + q - 3|$ if

a) $p = 2$ and $q = -5$	b) $p = -4$ and $q = 3$
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- Simplify each of the following algebraic expressions.

a) $(3x^2 - 5x + 8) + (-3x^2 - 5x + 12)$	f) $(2x - 3)(2x + 3)$
b) $(3x^2 - 5x + 8) - (-3x^2 - 5x + 12)$	g) $2(m - 3)^2 - (2m + 5)(m - 3)$
c) $3(x - 5) - 4(x - 2)$	h) $(a - 4)(2a + 1) - (a - 3)^2$
d) $5(2a + 1) - 2(2 - a) - 7(a + 8)$	i) $(3x - 1)^3$
e) $(x - 5)(x - 2)$	
- Consider the equation $3x^3 - 7x + 18 = -x + 3(x^2 + 6)$.
 - Is the number 2 a solution of this equation?
 - Is the number -2 a solution of this equation?
 - Is the number 1 a solution of this equation?
 - Is the number -1 a solution of this equation?