



Name: _____
7th grade

Distribute.

1) $-3(x + 6)$

2) $-2(x - 4)$

3) $-4(2x + 1)$

4) $-5(3x - 2)$

5) $-(x + 6)$

6) $-(x - 2)$

7) $-2(-4x + 2)$

8) $-3(-5x - 2)$

Simplify.

1) $(2x^2y^4)^3$

2) $(3xy^2)^3$

3) $(4x)^3$

4) $(9y)^2$

5) $(3x^3y)^3$

6) $(2abc)^3$

7) $(4a^3)^2$

8) $(10x^6)^2$

Write an equation in ONE variable to model the situation. DO NOT SOLVE!

1) The sum of two consecutive numbers is 35.

2) The sum of three consecutive numbers is 108.

3) The product of two consecutive numbers is 240.

4) The sum of two consecutive numbers minus 13 is 168.

5) Given two consecutive numbers, twice the first number plus four times the second number is 18.

M-Step Practice Review

1) Find the value of p so the expression $\frac{3}{8} - \frac{1}{4}n$ is equivalent to $p(3-2n)$.

2) Find the value of p so the expression $\frac{7}{10} + \frac{1}{5}n$ is equivalent to $p(7+2n)$.

3) In the given equation, a , b , and c are nonzero rational numbers:

$$a \cdot b = c$$

Given this equation, write one number in each box to complete four true equations.

choices: $a, b, c, -a, -b, -c$

$$-a \cdot \square = c$$

$$\frac{\square}{-b} = a$$

$$\square \cdot \square = -c$$

$$\frac{\square}{\square} = -a$$