
I can use the distributive property to simplify expressions.

Review:

1.) Fill in the blank(s).

$$3(x + 7) = \underline{3x} + \underline{21}$$

2.) Fill in the blank(s).

$$\underline{4}(-3x + 6) = -12x + 24$$

Distribute to Simplify

Step 1: Get rid of parenthesis first by distributing

Step 2: Identify like terms

Step 3: Combine to simplify

Simplify the following expressions.

1.) $3(b + 9) + 10$

$$3b + 27 + 10$$

$$3b + 37$$

2.) $-(a - 9) + 7 - 3a$

$$-a + 9 + 7 - 3a$$

$$-4a + 16$$

3.) $0.2(c + 8) + 4.5c + 7.3$

$$0.2c + 1.6 + 4.5c + 7.3$$

$$4.7c + 8.9$$

4.) $\frac{3}{4}y - 7 + \frac{1}{2}(y + 8)$

$$\frac{3}{4}y - 7 + \frac{1}{2}y + 4$$

$$\frac{1}{4}y - 3$$

Test Examples:

1.) What is the value of c when the expression $21.2x + c$ is equivalent to $5.3(4x - 2.6)$?

$$c = -13.78$$

2.) What is the value of b when the expression $27x + b$ is equivalent to $3(\overbrace{9x - 3.5})$?

$$b = -10.5$$

Distributing Negative

$$1.) (4a + 5) - (3a + 10)$$

$$4a + 5 - 3a - 10$$

$$a - 5$$

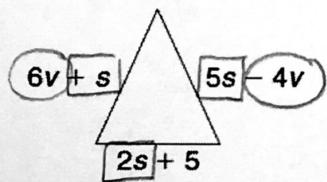
$$2.) (2b + 6) - (9b - 5)$$

$$2b + 6 - 9b + 5$$

$$-7b + 11$$

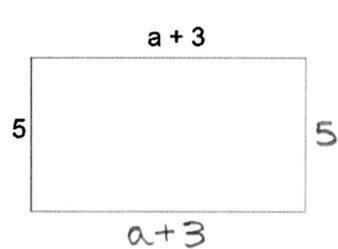
I can find the area and perimeter of shapes by simplifying expressions.

1.) Find the perimeter.



$$2v + 8s + 5$$

2.) Find the perimeter.



Find the area.

$$\underline{2a + 16}$$

$$\underline{5a + 15}$$

$$5(a + 3)$$