

Distributive Property (Day 2)



Use the Distributive Property to simplify the expression.

1) 8(5+w)

2) 11(9+d)

3) 15(p-4+2)

Mental Multiplication

4) Multiply the following mentally. Afterwards, check by showing work.

4×36

Mental Multiplication

5) Multiply the following mentally. Afterwards, check by showing work.



What's a Term?

Terms in algebra are the part of an expression that you add together.

4x + 5 + 9x

Parts of Terms 3x + 7

Something special...



Like Terms

These are terms with the _



Unlike Terms

These are terms with the



Simplifying

5*n* + 3*n*

Simplifying 7p+2p

You try some. 4x + 12x =

5b + 14b =

15c - 9c =

10f - 2f =

Now, what if you were asked to simplify an expression like this:

2a + 3a + 4a

How in the world would you simplify an expression like this?

2a + 3a + 4d

Let's do some more.

- 3a + 4a + 5x =
- 5a + 2a + 7g =
- 6b + 2a + 2b =

10x + 3y + 4x =

How did you do? Did you remember to just combine the like terms?



Simplify the following.

 $\frac{4x+8y+3x}{3x} = 7x+8y$ [€]like terms[→] 5y + 8y + 4z =[€]like^Ĵ 3 + 9b + 10 = $8x^2 + 2x^2 + 7x =$ 6xy + 3xy + 3x =3ab + 10a + 8a = 6a + 7b + 5a + 7b = 11a + 14b3x + 6y + 2y + 8x = $9x^2 + 10 + 4x^2 + 7 =$



Simplify the following.

$$4x + x + 3x + 8y =$$

$$7x^{2}y + 8 + 5x^{2}y + 4 =$$

$$5a + 3b + 4c + 2a =$$

$$6x^{3} + 9x + 10x^{3} + 4x^{2} =$$

$$8a^{2} + 4ab + 6a + 8a^{2} =$$

$$7a + 5b + c + 4a + 3b =$$

Simplifying Using the Distributive Prop.

Use the Distributive Property to simplify the expression.

1)
$$5(w+4)+w+8$$

2) 18 + 8(k + 9)

Simplifying Using the Distributive Prop.

Use the Distributive Property to simplify the expression.

3) 6(a+18)+1+7a

4) 7(m+5)-2m

Applying the Distributive Property

Find the perimeter and area of the following:

