

Warm Up:

1)  $6(2) - 4 + 3^2$

2)  $-3(-1) - 4^2 + \frac{6}{2}$

3) Solve:  $x - 3 = 9$

4) Solve:  $-8x = 24$

5) Set up your 5-subject notebook:

Warm Up, Notes, Classwork, Homework, and Review.

Name  
Date  
Block

## Combining Like Terms and the distributive property

What is a term?

number/variables in an expression that are separated by a plus or minus sign

What are like terms?

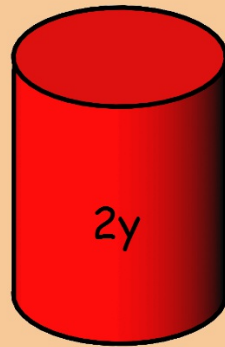
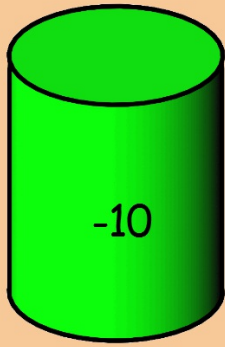
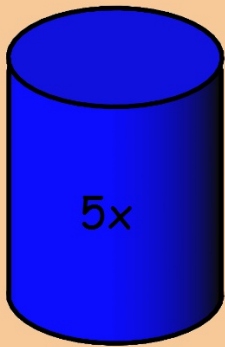
terms that have the same variable raised to the same power

Which term in an algebraic expression is the constant?

A term that has no variable

Which number in a term is a Coefficient?

a number factor of a term



$13y$

$131$

$-9$

$1$

$6x^2$

$5y$

$15x$

$22y^4$

$-46y$

$-y$

$8x$

$29$

$11x$

**Examples:**

$$14a - 5a$$

$$7y + 8 - 3y - 1 + y$$

$$9x + 3y - 2x + 5$$

$$4m + 9n - 2$$

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What is the  
distributive property?

$$a(b + c) = ab + ac$$

$$a(b - c) = ab - ac$$

$$(b + c)a = ba + ca$$

Example 1

$$3(x + 9)$$

Example 2

$$7(5 - 2x) - x + 5$$

Example 3

$$-4(x - 6) + 5x + 10$$

YOU TRY

1)  $4(y + 9) - 3y$

2)  $6(5 - n) - 2n$

3)  $3 - 2(5m - 10)$

4)  $-8k + 4(-3 - k)$