Understanding "Like Terms"

• A <u>term</u> is

Type of Term	Example	Other like terms	NOT like terms
constant			
coefficient x variable			
coefficient x variable raised to power			
coefficient x variable x variable			
coefficient x variable x variable (with exponents)			

Solving equations with more than one variable term:

$2x+4x-9=15 \qquad \qquad \frac{3}{4}$	$\frac{3}{4}y -$	$\frac{1}{2}y-5=7$
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$$3z = 12 - z$$
 $5x - 4 = 3x + 12$

Solving equations with parentheses:

$$2(x+4) = 20 \qquad -2(x-4) = -12$$

$$4(y-3) = 3(y+6) \qquad -(x+3) - 5 = 24$$

$$\frac{(x-2)}{3} = 13$$

A trick for solving equations with fractions:

$$\frac{1}{2}x - \frac{1}{3} = \frac{3}{4} \qquad \qquad \frac{4}{5}y = \frac{1}{2}y + \frac{3}{10}$$

$$\frac{2}{3}m-4=\frac{1}{2}$$