


**MS Algebra: 3.2.3**

**Pretest - combining like terms and distributive property**

**Any ?s on HW: Jumps/Hop/Leaps WS**

**Goal: I can solve multi-step equations in one variable.**

**HW: Worksheet 3.2.3**



I have \$15. I make \$7 an hour babysitting.  
When I have \$43, how many hours did I babysit?

$$\begin{array}{rcl}
 7h + 15 & = & 43 \\
 -15 & & -15 \\
 \hline
 7h & = & 28 \\
 \frac{7h}{7} & = & \frac{28}{7} \\
 h & = & 4
 \end{array}$$

4 hours

I have 7 video games.  
Every year I am allowed to get 3 new games.  
In how many years will I have 40 video games?

$$\begin{array}{rcl}
 3t + 7 & = & 40 \\
 -7 & & -7 \\
 \hline
 3t & = & 33 \\
 \frac{3t}{3} & = & \frac{33}{3} \\
 t & = & 11
 \end{array}$$

11 years

You have \$100 in your savings account.  
Every week you spend \$8.  
In how many weeks will you have \$44 left?

$$\begin{array}{rcl}
 100 - 8w & = & 44 \\
 -100 & & -100 \\
 \hline
 -8w & = & -56 \\
 \frac{-8w}{-8} & = & \frac{-56}{-8} \\
 w & = & 7
 \end{array}$$

7 weeks

**HW: 3.2.3: Solving Two-Step Equations**

1.)  $-4x + 3 = 39$

2.)  $\frac{x}{16} - 2 = 10$

3.)  $-4.2 + 4x = 31.8$

4.)  $6 + 9x = 33$

5.)  $3 + 2x = 11$

6.)  $5x + 8 = 18$

7.)  $-3x - 3 = 48$

8.)  $7x + 7 = 63$

9.)  $-2x - 10.5 = 5.5$

10.)  $4x - 6 = 24$

11.)  $6x + 4 = 40$

12.)  $-2 + \frac{x}{6} = -5$

13.)  $\frac{x}{-2} - 2 = 10$

14.)  $3x + 16 = -21.5$

15.)  $1.5x + 8 = 44$

16.)  $9 - 5x = 39$

17.)  $6x - 4 = -22$

18.)  $\frac{x}{-3} + 2 = -5$

19.)  $-7 + 7x = 42$

20.)  $48x + 2 = -46$

21.) I have 32 colored pencils in a bin. I buy 8 more identical packs of colored pencils. I now have 128 colored pencils total. Write and solve an equation to determine how many colored pencils came in each pack.

22.) There are 320 students going on a field trip. There are 6 buses and each bus has the same number of students on it. There are also 8 students being driven in cars. Write and solve an equation to determine how many students are on each bus.