#### Agendo

Warm-Up

HW Check

Notes (p.13&14)

HW: Practice #1-12 EVENS

Essential Question

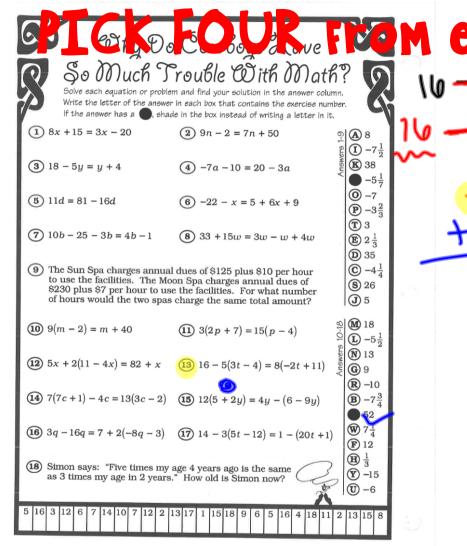
What are the types of solutions to equations?

# Warm-Up (in notebook!!)

Glue the scales near the TOP of page 13. Title the page "Types of Solutions"

These scales are all currently balanced. You must choose a number to fill into the boxes in each problem that will keep them balanced. Whatever number you choose for a problem, you may ONLY use that number.

1. 2. 16
16
3. 20 13 4. 16
5. 6. 20

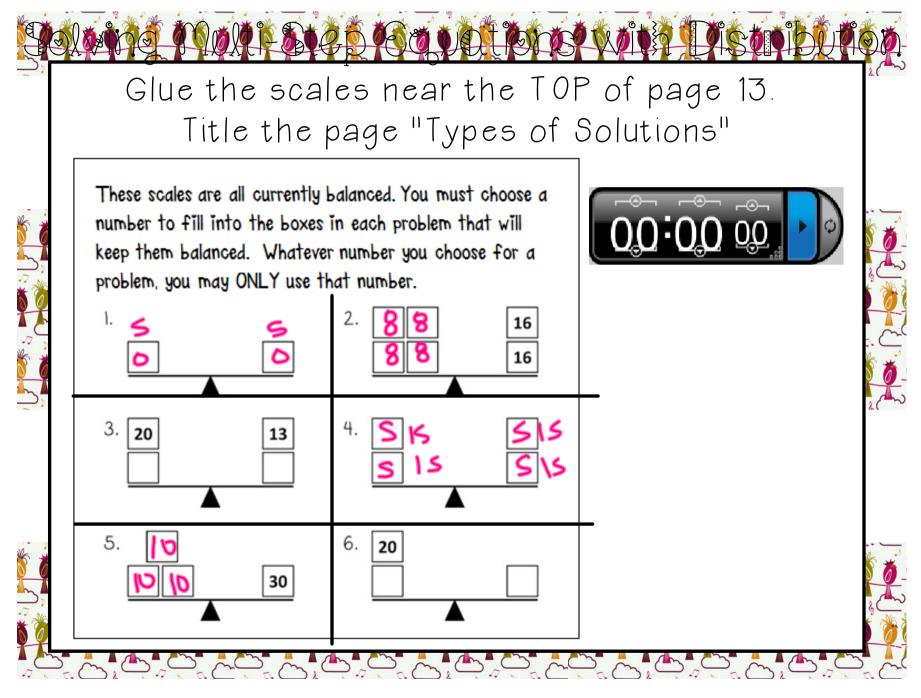


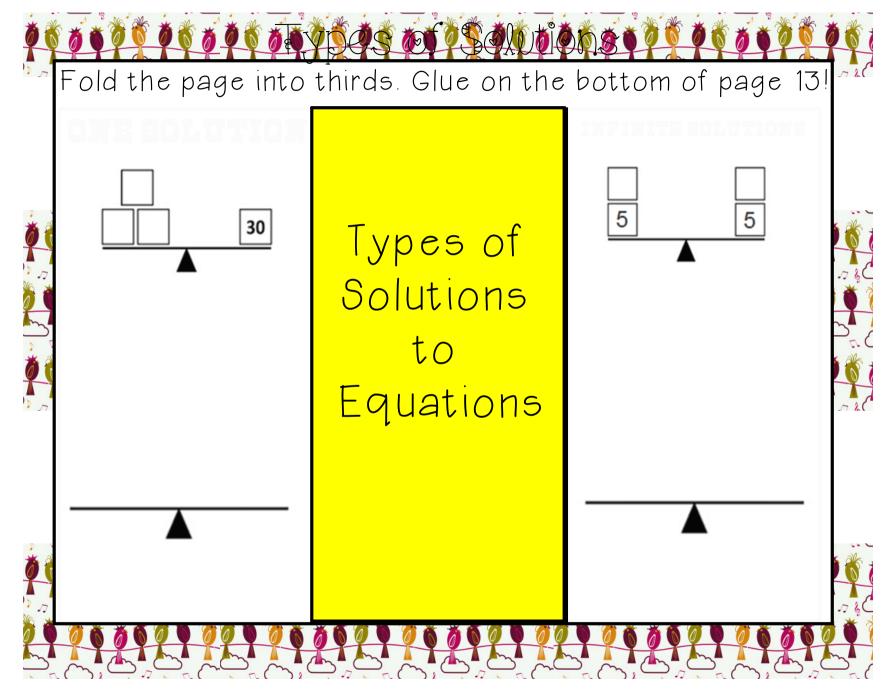
3.16

Equations and Problems: Solving Equations With the Variable on Both Sides

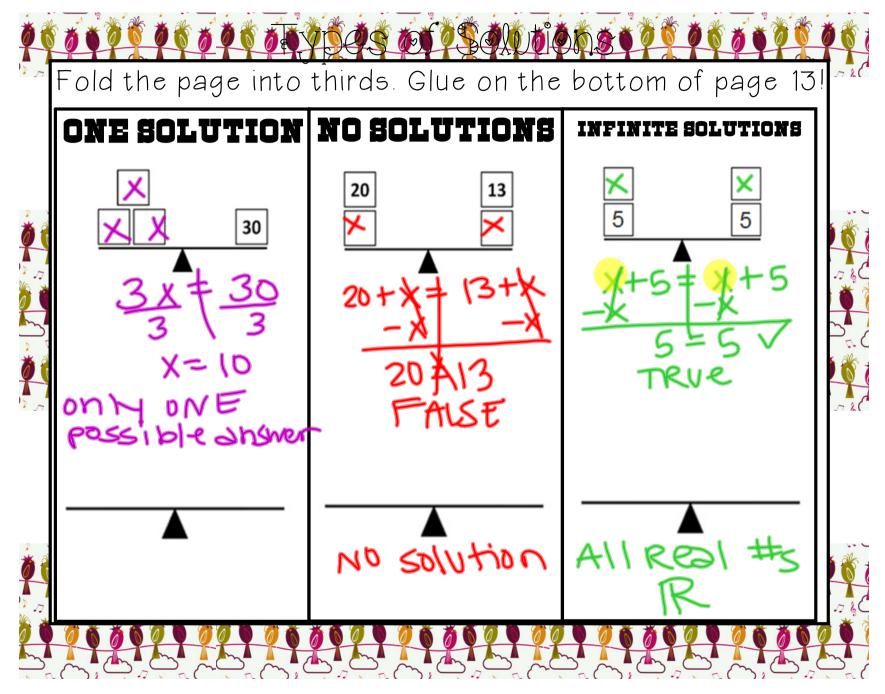
©2006 Marcy Mathworks

PUNCHLINE • Algebra • Book A





6 Multi Step D3.notebook



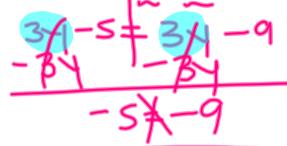


1. 
$$-3(2n-5) \neq \frac{1}{2}(-12n+30)$$

3. If (x, 2) is a solution to 2.1(7-3y) = x, what is the value of x?

$$2.1(7-3(2))= \times$$
 $2.1(7-6)= \times$ 
 $2.1(1)= \times$ 

2. 
$$3y - 5 \neq y + 2y - 9$$

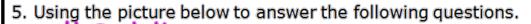


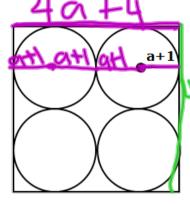
#### No solution

$$\begin{array}{c} \mathbf{x} = \mathbf{0} \\ \mathbf{1}. & \text{If } (0, y) \text{ is a solution to} \end{array}$$

$$\frac{1}{3}(6y+1) = \frac{2}{3}(3-x)$$
, what is the value of y?

# Solving Multi-Step Equations p.14



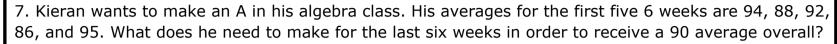


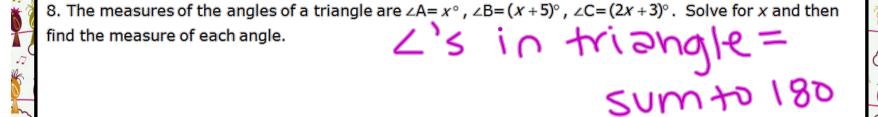
A. Write an equation in terms of a that could be used to solve for the perimeter of the square.

B. If the perimeter of the square is 52 cm, solve for a.

$$\frac{160 + 14 + 52}{160 + 16} = \frac{36}{16} = \frac{36}{16} = \frac{36}{16} = \frac{36}{16} = \frac{36}{16} = \frac{3}{16} = \frac{3}{16}$$

## Solving Multi-Step Equations p.14





- 9. A house painting company charges \$376 plus \$12 per hour. Another painting company charges \$280 plus \$15 per hour.
  - A. How long is a job for which both companies will charge the same amount?
  - B. What is the cost for completing the job in this amount of time?



Algebra I - Unit 1 - Solving Multi Step Equations Day 2

Practice - Solving Multi Step Equations Day 2

Date

Solve each equation and check your answer. Be sure to show all work

1. 
$$6x + 7 = 8x - 13$$

2. 
$$2(5n - 2) = 4(n + 2)$$

3. 
$$4(2a - 8) = \frac{1}{7}(49a + 70)$$
 4.  $x + 4 = \frac{-3x - 7}{2}$ 

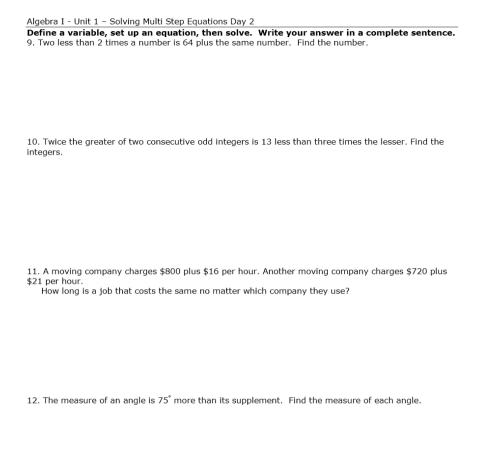
4. 
$$x + 4 = \frac{-3x - 7}{2}$$

5. 
$$-x+3=-\frac{4}{7}$$

5. 
$$-x+3=-\frac{4}{7}x$$
 6.  $28-2.2y=11.6y+262.6$ 

7. 
$$-8 - 3x = x - 4(2 + x)$$
 8.  $6(y + 2) - 4 = 6y$ 

$$6(y + 2) - 4 = 6$$



### Solving Multi-Step Equations

1. 
$$10=x$$

$$2. n = 2$$

$$3. a = 42$$

$$4. x = -3$$

$$5.7 = x$$

6. 
$$-17 = y$$

9. 
$$2x - 2 = 64 + x$$

$$x = 66$$

10. 
$$2(x + 2) = 3x - 13$$

Solve for x!

$$11.800 + 16x = 720 + 21x$$

16 hours

$$12. x + x + 75 = 180$$

The smaller angle is 52.5°. What is the measure of the larger angle?

Your assignment is the EVENS! Try the odds for more practice (4 a bonus stamp!)