Solving Systems by Climination

Agenda

Warm-Up

HW Check

Notes p.52-53

HW: #1 - || ODDS

Reminders

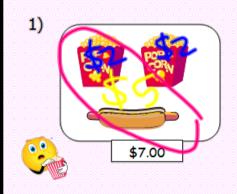
Quiz Friday

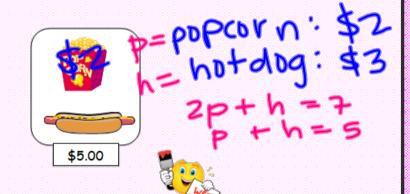
essential Question

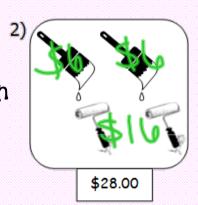
How do I find the solution a system using elimination?

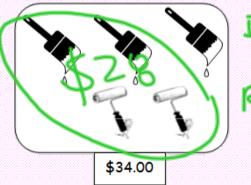
Warm-Up Tuesday

Using the following pictures, try to figure out the cost of each item. Then explain the process that you used to find the solution.









Brush: \$6 Roller: \$8

#### Algebra I - Unit 4: Solving Systems by Substitution Day 2

Practice - Solving Systems by Substitution Day 2

Name \_\_\_\_\_\_ Period \_\_\_\_\_\_

#### "WHAT DIJNEY MOVIE IJ ABOUT A JTUPID BOYFRIEND?"

Solve the systems of equation using the substitution method. The answer to each problem will match a letter that will allow you to figure out the joke.

1. 
$$2x + 3y = 10$$
$$y = -x + 2$$

2. 
$$x = 4y - 7$$
  
 $3x = 2y - 1$ 

B. 
$$(\frac{1}{2},7)$$

3. 
$$6x - y = -4 \\ 2x + 2y = 15$$

4. 
$$5y - 6 = x$$
  
 $y = -x$ 

6. 
$$\begin{array}{c} x - y = 3 \\ 6x + 4y = 13 \end{array}$$

5.  $\begin{array}{l} x - 2y = 1 \\ y = x + 2 \end{array}$ 

V. All real number on the line: 
$$y = -\frac{1}{2}x + 3$$

7. 
$$6x - 2y = 7$$

$$y - 3x = -6$$

B. 
$$(\frac{5}{2}, -\frac{1}{2})$$
  
F.  $(-3, 13)$ 

$$7y = 19$$
 $-2y - 16$ 

354+95 + -24-16

X-7(-3)=16 X+21=19-21

Adapted from Nasco's Algebra 1 Joke Worksheets

## Solving Systems by Olimination 5.52 Passential Question How do I find the solution to a system using elimination?

2+(2)=0

### **Mathematics of Life**

∴ Life = ½ Happy + ½ Sad

That's Real Life. Enjoy It.

# essential Question How do I find the solution a system using elimination? Solve each system of equations by elimination. Write your answer as an are the system of equations by elimination. 4x + 7y = 66x + 5y = 20-12x + 5y = -59x - 15y = 60=0 infinite solutions

Solving Systems by Climination essential Question How do I find the solution a system using elimination? X's line up 4's line up 1. Rearrange 1's line up

1. Rearrange 1's line up

2. Change # equal, signs opposite

2. Morring! # equal, signs opposite 3. Add together should cancel 5. Plug into original

### Solving Systems by Climination p. 5. Pssentjal Question How do I find the solution a system using elimination?

7. The equation of two lines are 3x - 5y = -35 and -2x + 5y = 30. What is the value of y in the solution for this system of equations?

8. David and Jose went to Target to buy clothes. David bought two shirts and one pair of jeans for \$53.50. Jose bought two shirts and three pairs of jeans for \$108.50. How much is one pair of jeans?

Algebra I - Unit 4: Solving Systems by Elimination Day 1

Practice - Solving Systems by Elimination Day 1

Solve each system of equation using elimination.

1. 
$$x + y = 5$$
  
 $3x - y = 7$ 

$$3x + 5y = 0$$
2.  $-2x + 5y = 25$ 

$$2x + y = 3 \\
-2x + 5y = -4$$

4. 
$$-4x + 6y = -4$$
$$4x - 9y = 5$$

$$3x + 8y = -1$$

$$-3x + y = -17$$

$$2x + y = 5$$

$$7. 3x + y = -6
5x + y = -10$$

5. 
$$3x + 8y = -1$$
  
 $-3x + y = -17$ 
6.  $2x + y = 5$   
 $-2x - y = 8$ 
7.  $3x + y = -6$   
 $5x + y = -10$ 
8.  $\frac{1}{2}x - 5y = 30$ 

Solve each system of equation using elimination.

9. 
$$4x + 7y = -12 4x + y = 12$$
, find x-y

10. 
$$x + 2y = 15$$
  
  $5x - 2y = 3$ , find xy

- 11. Naomi took a 40-question history exam. The exam only had multiple-choice questions and shortanswer questions. Each multiple-choice question was worth one point; each short-answer question was worth five points; the whole exam was worth 100 points.
  - A. Which system of equation could be used to solve for m, the number of multiple-choice questions, and s, the number of short-answer questions?

A 
$$5m + s = 40$$
  
 $m + s = 100$ 

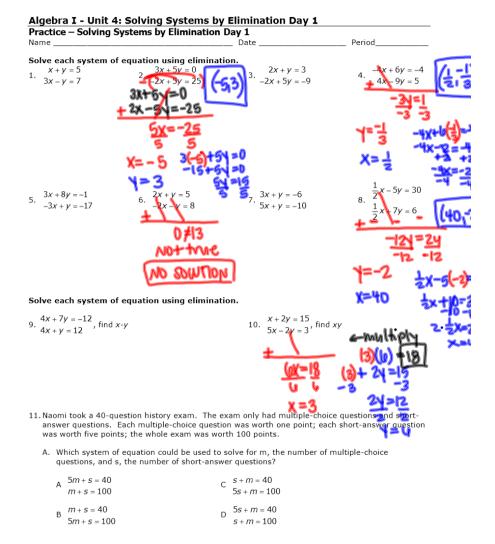
C 
$$s + m = 40$$
  
5s + m = 100

B 
$$m+s=40$$
  
5 $m+s=100$ 

D 
$$5s + m = 40$$
  
 $5 + m = 100$ 

B. Solve the system that you selected in part A.

HW Help: Climination Lay 1 0 odd answers only...look at the even even solutions + 3x+5 solutions for some help! 1. (3,2) Which variable cancels? 3. (2,-1) 5. (5,-2) 7. Multiply one equation by a NEGATIVE (-2,0) 9. 8. Again, multiply by a negative 11. A. C B. 15 short answer 25 multiple choice



B. Solve the system that you selected in part A.