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**Writing Equations from Word Problems 10**

Directions: Write an equation for each situation. Solve the equation to find the answer.

- Charlotte can run about 10 mph. Marissa can run about 15 mph. How much longer does Marissa take to run 20 miles?  
 A.  $20x = 10$   
 B.  $20x = 25$   
 C.  $20x = 15$   
 D.  $20x = 30$
- Mr. Griffin is putting lumber around his rectangular bulletin board. The height of the bulletin board is 3 feet. The total perimeter of the bulletin board is 24 feet. What is the width of the bulletin board? (Perimeter of a rectangle =  $2 \times \text{length} + 2 \times \text{width}$ )  
 A.  $2x + 18 = 24$   
 B.  $2x + 3 = 24$   
 C.  $2x + 24 = 18$   
 D.  $2x = 18$
- Kristin has 4,000 grams of salt for a science experiment. How many kilograms is that?  
 A.  $4,000 \div 1,000 = 4$   
 B.  $4,000 \div 100 = 40$   
 C.  $4,000 \div 1,000 = 4,000$   
 D.  $4,000 \div 1,000 = 4,000$
- Ray called a plumber to fix a backed-up toilet. The plumber charges \$55/hour. It took him 3 hours to fix the problem, and Ray had to purchase a \$40 part. He ended up owing the plumber \$20. How many hours did it take the plumber to fix the problem?  
 A.  $3x + 40 = 20$   
 B.  $3x + 40 = 70$   
 C.  $3x + 40 = 15$   
 D.  $3x + 40 = 75$
- Geoff plays video games 7 days a week. Each day he plays 1 hour of video games. He plays a total of 14 hours of video games a week. How many hours does he play each day?  
 A.  $7x = 14$   
 B.  $7x = 7$   
 C.  $7x = 1$   
 D.  $7x = 14$

**LINEAR SYSTEMS WORD PROBLEMS**

WITH EXAMPLES

Examples of Linear Systems Word Problems:

- Card 1:** Two supplementary angles are two angles whose sum is 180°. The larger angle is 5 times the smaller angle. Find the measure of each angle.
- Card 2:** The sum of two numbers is 7 and the difference is 11. What are the numbers?
- Card 3:** A chef's shop has an admission fee of \$2.50 for children and \$3.50 for adults. On Saturday 260 people came to the chef's shop and they were given \$750. How many children and how many adults came to the chef's shop?

**Two-step Equation Maze!**

Directions: Use your solutions to navigate through the puzzle. SHOW ALL STEPS!!!!

**Systems of Equations Word Problems**

- Define the 2 variables.
- Write the 2 equations.
- Solve the System.

(Don't forget to include units in your answer.)

- You bought 12 1-gallon bottles of apples and orange juice for a school dance. The apple juice was on sale for \$1.00 per 1-gallon bottle. The orange juice was \$1.50 per-gallon bottle. You spent \$15.00. How many bottles of each type of juice did you buy?  
 Ex ... solution  $x = \#$  bottles of apple  $x + y = 12$   $x + y = 12$   
 $y = \#$  bottles of orange  $\$1x + \$1.50y = \$15$   $-(x + 1.5y = 15)$   
 $-0.5y = -3$   
 $y = 6$   
 $x = 6$   
**"6 bottles of apple juice , 6 bottles of orange juice"**
- Tickets for the theater are \$5 for the balcony and \$10 for the orchestra. If 600 tickets were sold and the total receipts were \$4750, how many of each type of tickets were sold?  
 $x + y = 600$   $5x + 10y = 4750$   $5y = 1750$   
 $y = 350$   
 $x = 250$
- Bryce and his sister Julia each have a savings account for college. In April, Bryce's account had a balance of \$2000 and he plans to deposit an additional \$50 per month. At the same time, Julia's account had a balance of \$1600 and she plans to deposit \$100 per month. Predict when Bryce and Julia will have the same amount in their college accounts.  
 $x = \text{time} = \# \text{ months}$   $y = 50x + 2000$   
 $x = \text{Account} + \$$   $y = 100x + 1600$   
 $50x + 2000 = 100x + 1600$   $-50x = -400$   
 $x = 8$
- Your brother and sister took times driving on a 580-miles trip that took 10 hours to complete. Your brother drove at a constant speed of 55 miles per hour and your sister drove at a constant speed of 60 miles per hour. How long did each person drive?  
 $x + y = 10$   $55x + 60y = 580$   $x = 4 \text{ hrs}$   
 $y = 6 \text{ hrs}$
- Last year you mowed grass and shoveled snow for 10 households. You earned \$200 per household mowing for the entire season and \$180 per household shoveling the entire season. If you earned a total of \$1880 last year, for how many households did you mow? For how many did you shovel?  
 $x + y = 10$   $200x + 180y = 1880$   $x = 4$   
 $y = 6$





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