October 4, 2018

1.) Simplify: 5b - 2(7 - b)

2.) Sydney has 8 less than 2 times the number of dolls than her sister, Dalia. Write an expression to represent the number of dolls Sydney has if x represents the number of dolls Dalia has.

$$3\left(\frac{3X}{a}+a\right) = 3\left(\frac{x}{a}+4\right)$$

$$\frac{2}{3} \cdot \frac{3x}{2} = \frac{6x}{2} = 3x$$

$$\frac{2}{3} \cdot \frac{x}{2} = \frac{3x}{2} = x$$

	Steps to Solving a Word Problem					
1.)	Read and annotate the problem. (CUBES)					
2.)	Define the unknown(s) using a variable.					
3.)	Write an equation. MATHinking					
4.)	Solve. Circle the numbers					
	U nderline the question					
	B ox key words and use Math notation E liminate extra info					
	S how your work to solve the problem					

1.) 331 students went on a field trip. Six buses and 7 students traveled in cars. How many students were on each bus?

$$X=\#of$$
Students
On each
bus
$$54 \text{ Students}$$
 54 Students

$$54 \text{ Students}$$

$$54 \text{ Students}$$

$$54 \text{ Students}$$

$$54 \text{ Students}$$

2.) You bought a magazine for \$5.00 and 4 pairs of Nike socks. You spent a total of \$25.00. How much was each pair of socks?

$$X = cost for$$
one pair
of socks
 $4x + 5 = 35$
 $-5 - 5$
 $4x = 30$
 $4x = 30$
 $4x = 5$

3.) Aaliyah had \$24 to spend on school supplies. She bought 7 notebooks and had \$10 left. How much did each notebook cost?

$$7X+10=34$$

 $-10-10$
 $-1X=14$
 $X=3+$

4.) Oceanside Bicycle Rental Shop charges \$17 plus \$6 per hour to rent a bicycle. Sandy paid \$47 total to rent her bicycle. How many hours did she rent the bicycle? =

$$X = \frac{\text{# of hours}}{\text{hours}}$$
 $\frac{(5 \text{ hours})}{(5 \text{ hours})}$
 $\frac{(5 \text{ hours})}{(5 \text{ hours})}$
 $\frac{(5 \text{ hours})}{(5 \text{ hours})}$
 $\frac{(5 \text{ hours})}{(5 \text{ hours})}$

What is the First Page in a Geography Book?

$$5 - 9 /4 \cdot 12$$

Five less than one fourth of my age is 12.

How old am I?

 $-1 \times -5 = 12$

using algebra to solve word problems

CUBES

3. The larger of two numbers is numbers is 61, find the numb	seven less than three time ers.	es the smaller numbe	r. If the sum of the	
The larger of two numbers is numbers is 106, find the nun	one more than four times bers.	s the smaller number.	. If the sum of the	