Mar. 25, 2014 (snow day- Mar26/27 & Mar 31/April 2

April 2nd, 2014 April 1st, 2015

WORD PROBLEM EQUATIONS

April 24, 2018

Mini-Lesson # 1 (TASK 1, 2, 3)

$5x+4=13$

Jan 21-8:53 AM

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STEPS TO SOLVING WORD PROBLEMS

1. Use a variable to represent the unknown quantity.

2. Express any other unknown quantities in terms of this variable, if possible

3. Write an equation, and solve it.

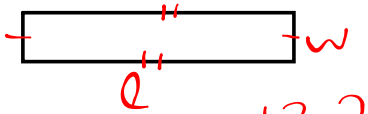
4. State the answer to the problem **(write a sentence)**.

5. Check your answer by substituting in the problem

Jan 28-9:59 AM

Example 1

A rectangle has length 3.7 cm and perimeter 13.2 cm.
Determine the width of the rectangle.



$2l + 2w = 13.2$

$2(3.7) + 2w = 13.2$

$-7.4 \quad -7.4$

$2w = 5.8$

$\frac{2w}{2} = \frac{5.8}{2}$

$w = 2.9\text{cm}$

The width of the rectangle is 2.9cm.

Things to Remember

Use a variable to represent the unknown quantity

Express any other unknown quantities in terms of this variable, if possible

Write an equation, and solve it.

State the answer to the problem

Check your answer by substituting in the problem.

Jan 21-8:55 AM

Practice **YOU TRY!**

An equilateral triangle has a perimeter of 1.8 cm. What are the side lengths? l

$3l = 1.8$ $\quad \frac{1.8}{3} = l$

$0.6 = l$

The sides are 0.6 cm.

Things to Remember

Use a variable to represent the unknown quantity

Express any other unknown quantities in terms of this variable, if possible

Write an equation, and solve it.

State the answer to the problem

Check your answer by substituting in the problem.

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EXAMPLE 2:

A large pizza with cheese costs $9.00 plus $0.75 for each additional topping. Bob orders a large pizza that cost $14.25. How many toppings did he order on the pizza?

t

$9.00 + 0.75t = 14.25$

$-9.00 \quad -9.00$

$\frac{0.75t}{0.75} = \frac{5.25}{0.75}$

$t = 7$

Bob ordered 7 toppings on his pizza.

Things to Remember

- Use a variable to represent the unknown quantity
- Express any other unknown quantities in terms of this variable, if possible
- Write an equation, and solve it.
- State the answer to the problem
- Check your answer by substituting in the problem.

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Practice

YOU TRY!

A clubhouse sub costs $5.50 plus $0.45 for each additional veggie. Sam ordered a clubhouse that cost $7.75. How many veggies did she order on the sub?

v

$7.75 = 5.50 + 0.45v$

$-5.50 \quad -5.50$

$\frac{2.25}{0.45} = \frac{0.45v}{0.45}$

$5 = v$

Things to Remember

- Use a variable to represent the unknown quantity
- Express any other unknown quantities in terms of this variable, if possible
- Write an equation, and solve it.
- State the answer to the problem
- Check your answer by substituting in the problem.

Jan 21-8:55 AM