Activator

What is happening here?

A person has 7 bills and $19 dollars.

Let __x__ = # of $1's   __x__ + __y__ = __7__
                          The Amount Equation

Let __y__ = # of $5's $1x + $5y = $19
                          The Value Equation

Today, we will be writing these equations.

Today's Objective

Students will be able to write equations from word problems.

Announcements

Flying with the wind a plane went 348 miles per hour. Flying into the wind the plane only went 316 miles per hour. What is the speed of the plane in still air? What is the speed of the wind?

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Let p = Speed of plane

Let w = Speed of wind

$$p + w = 348$$

$$p - w = 316$$

$p + w = 348$

$p - w = 316$

Find the two speeds.

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$2p = 664$

$\div 2 \qquad \div 2$

$p = 332$

$p + w = 348$

$(332) + w = 348$

$332 + w = 348$

$-332 \qquad\qquad -332$

$w = 16$

Write two let statements and two equations.

Nicole has 11 coins with quarters and 2 dimes. How many quarters does she have? How much money does she have?

Let __q__ = # quarters

$$\underline{q} + \underline{2} = \underline{11}$$

How many coins?

Let __m__ = Money

$$\$0.10(2) + \$0.25q = \underline{m}$$

The Value $ Equation

How many quarters?   How much money?

$q + 2 = 11$ $\$0.10(2) + \$0.25q = m$

$-2 \quad -2$ $\$0.10(2) + \$0.25(9) = m$

$q \ = \ 9$ $\$0.20 + \$2.25 = m$

Nicole has $\$2.45 = m$

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9 quarters.   Nicole has $2.45.

WP Part #1

The sum of two numbers is 12. The difference of the two numbers is -4. Write the equations.

Sum

Let $\underline{F}$ = $\underline{\text{First \#}}$

Let $\underline{S}$ = $\underline{\text{Second \#}}$

$\underline{F} + \underline{S} = \underline{12}$

$\underline{F} - \underline{S} = \underline{-4}$

Difference

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WP Part #2

$$F + S = 12$$

$$F - S = -4$$

$$2F = 8$$

$$\div 2 \qquad \div 2$$

$$F = 4$$

Find the two numbers.

$$F + S = 12$$

$$(4) + S = 12$$

$$4 + S = 12$$

$$-4 \qquad -4$$

$$S = 8$$

Group Work Questions

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

Yesterday, we did Lesson 5.7 Notes.

2nd Stop @ 9:03   3rd Stop @ 10:06   8th Stop @ 2:25

*One person from each group will present one question.

Exit Ticket

Write two equations. Solve for B

You work for McDonalds. You do the ordering. If you sell hamburgers for $2 and buy them for $0.75 each. How many do you need to sell to make $100?

Let __B__ = __# burgers__

$$\$2 - \$0.75 = \$1.25$$

The Profit Equation

$$\$100 \div \$1.25 = B$$

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How many burgers?

Lesson 5.7 Game

Matching

Match the graph, equations, and solution together. There should be **6 different groups** with 2 in each group.

*Ask a partner for help before you ask me.

Then, do your absent work which is due on Monday.