

APRIL 29, 2011

HAPPY FRIDAY!

PLEASE BE AWESOME FOR MS. BRISK TODAY



TODAY'S agenda

*** 9.1.1 - WRITING AND SOLVING EQUATIONS**

*** POSSIBLE HOMEWORK TIME**

HOMEWORK:

NEW assignment: P. 444 (11,12)

YESTERDAY'S assignment: P. 444 (1,3,5,6,8,9)

BOTH ARE DUE ON MONDAY

Writing and Solving equations

7

Inez's family is purchasing a new stereo system from Sharon's Sound Shop. The salesperson offers a choice of payment plans.

Plan A: Make a \$100 down payment and then pay \$35 per month for 24 months.

Plan B: Make no down payment and pay \$40 per month for 24 months.

- b. For each plan, write an expression for the amount Inez's family will have paid after m months.

Plan A $100 + 35m$

Plan B $40m$

variables:

$m = \text{Month}$

- c. After how many months will the family have paid the same amount no matter which payment plan is selected?

$$100 + 35m = 40m$$

	$100 + 35m$	$40m$
$m = 20$	135	40
8	380	320
9	415	360
20	800	800

8 Finding 5 more than a given number gives the same result as 3 times the sum of that number and 1. What is the number?

$5 + x = 3(x + 1)$

~~$3x + 1$~~ $3x + 3$

$x=1$	6	6	$5+x$	$3x+3$
	7	12	12	24
	16	21	21	51
	10	15	15	33
	8	13	13	27
	2	7	7	9

9 A rectangular field is three times as long as it is wide. The fence around the perimeter of the field is 800 meters long. How wide is the field?

w $3w$ w

$3w$

$$1w + 3w + 1w + 3w = 800$$

$$8w = 800$$

w 800

$w \times 100 = \div 8$

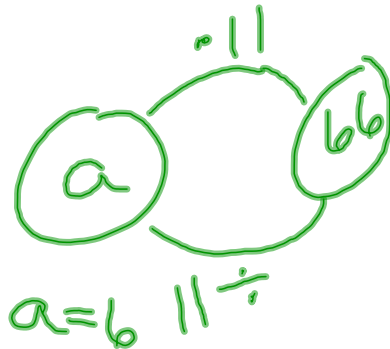
10

An apartment building has a TV antenna on its roof. The top of the antenna is 66 meters above the ground. The building is ten times as tall as the antenna. How tall is the antenna?

$a = \text{antenna}$

$$10a + a = 66$$

$$11a = 66$$



11

Together, Hally and Trey have \$14. If Hally had \$1 more, she would have twice as much money as Trey.

- a. Write and solve an equation to find how much money Hally and Trey each have.

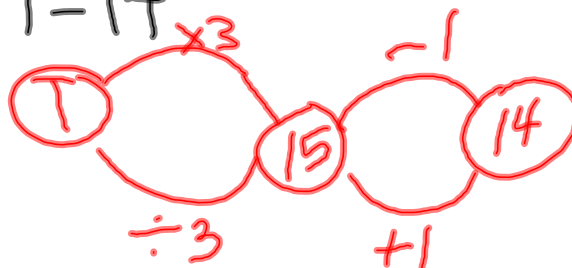
$$\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$$

$$T = \text{TREY}$$

$$9T + 2T - 1 = 14$$

$$3T - 1 = 14$$

$$\begin{array}{l} T = \$5 \\ H = \$9 \end{array}$$



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