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 $\underline{100+35m}$ Plan B $\underline{40m}$

variables:

$$m = months$$

c. After how many months will the family have paid the same amount no matter which payment plan is selected?
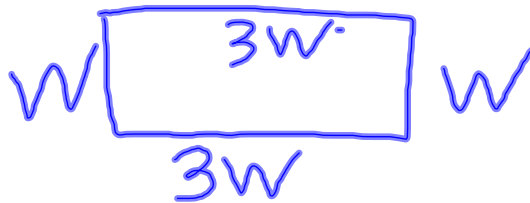
$$100 + 35m = 40m$$

$m = 20$

	$100+35m$	$40m$
3	205	120
10	450	400
12	520	480
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?

$$5 + 9 = 3(9 + 1)$$

	1	2
10	15	33
5	5	18
7	12	24
3	7	9
	6	6

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?

3w

w   w

3w

$$1w + 3w + 1w + 3w = 800$$
$$8w = 800$$

$$\boxed{W} \quad \boxed{800}$$

$$W = 100$$

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?

$a = antenna$

$$10a + a = 66$$

Building · antenna

$$11a = 66$$

$a = 6 = \div 11$

11

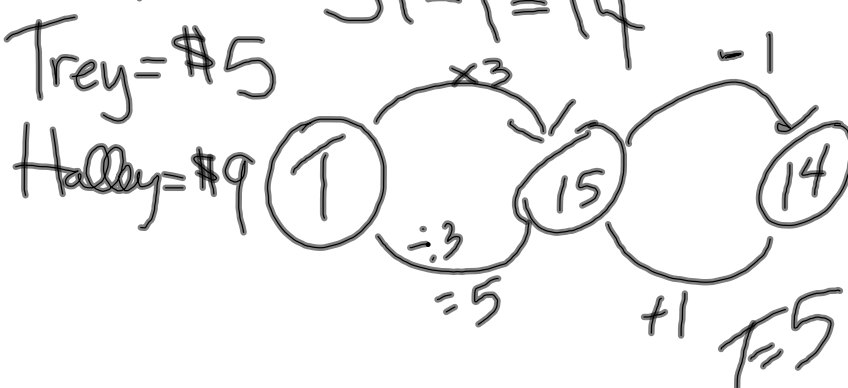Together, Hally and Trey have \$14. If Hally had \$1 more, she would have twice as much money as Trey.

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

$T = Trey$

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

$$3T - 1 = 14$$

$\begin{array}{r} 14 \\ -5 \\ \hline 9 \end{array}$

Trey = \$5

Hally = \$9

$T = 5$

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