

**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  $35m + 100$

Plan B  $40m$

variables:

$m = \text{months}$

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

$$35m + 100 = 40m$$

20     $700 + 100$                        $800$   
          $800 =$

**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?

$$n + 5 = (n + 1) \cdot 3$$

7

$$7 + 5 = 12 \quad \cancel{7 + 1 = 8(3) = 24}$$
$$1 + 5 = 6 \quad 1 + 1 = 2(3) = 6$$

**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?



$$\cancel{1}w + 3w + w + 3w = 800$$

$$8w = 800$$

$$w = 100$$

# 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?

$$10a + a = 66 = 10a + a = 66$$
$$\downarrow$$
$$11a = 66 \checkmark$$
$$1(6) = 66$$

# 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.

$$T = \text{Trey} \quad T + 2T - 1 = 14$$
$$H = 2T - 1 \quad 3T - 1 = 14$$
$$T = 5$$
$$H = 9$$

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