Name: _____

Date: _____

Cross Multiplying to Find an Unknown - Set 2

Instructions: For each of these proportions (without units), use the cross-multiplying procedure you learned in the video to solve for the unknown number 'n'. You can use a calculator for this set.

1

$$\frac{n}{7} = \frac{2}{5}$$

$$n \times 5 = 7 \times 2$$

$$\frac{n \times \cancel{5}}{\cancel{5}} = \frac{14}{5}$$

$$\boxed{n = 2.8}$$

2

$$\frac{8}{n} = \frac{15}{6}$$

3

$$\frac{n}{5} = \frac{3}{10}$$

4

$$\frac{7}{12} = \frac{n}{6}$$

5

$$\frac{3}{5} = \frac{n}{32}$$

6

$$\frac{4}{3} = \frac{51}{n}$$

7

$$\frac{5}{7} = \frac{1.2}{n}$$

8

$$\frac{n}{10} = \frac{3}{2.5}$$

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Name: _____

Date: _____

Proportion Word Problems - Set 2

Instructions: Use proportions to answer each of these word problems. You can use a calculator.

1 A rain gauge collected 0.2 inches of rain in 30 minutes. If it keeps raining at the same rate, what's the total time it will take to collect 1 inch of rain?

2 A biologist counted 15 squirrels in 3 acres of forest. Based on that data, how many squirrels would be expected to inhabit a 275 acre forest?

3 A runner burned 120 calories on a 1.6 km run. How many calories would they burn on a 5 km run?

4 If 3 oranges cost $1.75, how much would 20 oranges cost?

5 If it takes 2.3 gallons of milk to make 2 pounds of cheese, how many pounds of cheese can you make with 50 gallons of milk?

6 If you need 8 oz of chocolate chips to make 1.6 lbs of cookie dough, how many ounces of chocolate chips will you need to make 7 pounds of cookie dough?