Proportional Relationships   NAME:_____

Directions: 1) Write a ratio in terms of the UNITS in the problem.
2) Set up an proportion with "x" for the missing number.
3) Solve the problem. You MUST SHOW YOUR WORK.
4) Write your final answer in the blank next to the problem number.

1._____DVD's cost $12 for 4. How much would 16 DVD's cost?

$$\frac{money}{DVD's} \frac{12}{4} = \frac{x}{16}$$

2._____You need 4 pounds of ground beef to make 14 tacos. How many tacos can you make with 9 pounds of ground beef?

$$\frac{lbs.beef}{tacos} \frac{4}{28} = \frac{9}{x}$$

3._____It takes you 4 hours to drive 300 miles. How far can you drive in 10 hours?

4._____Makyla sent 120 text messages in the last 12 days. At that rate, how many texts would she send in a month (30 days)?

5._____A football player makes $26 million over 4 years. If his contract continued, how much would he make over a total of 6 years?

6._____A recipe for M&M's cookies requires 2 cups of M&M's to make a dozen cookies. How many cookies can be made with 7 cups of M&M's?

7._____If Donald drives 250 km in 4 hours, how far could he drive in 2 full days?

8. ._____The Chick-fil-A cow hugs 60 kids every 2.5 hours. How many kids would he hug in ½ hour?

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1.__48__ DVD's cost $12 for 4. How much would 16 DVD's cost?

$$\frac{money}{DVD's} \frac{12}{4} = \frac{x}{16}$$

×4

2.__63__ You need 4 pounds of ground beef to make 14 tacos. How many tacos can you make with 9 pounds of ground beef?

$$\frac{lbs.beef}{tacos} \frac{4}{28} = \frac{9}{x}$$ ×7

3.__750__ It takes you 4 hours to drive 300 miles. How far can you drive in 10 hours?

$$\frac{hrs}{mi} \frac{4}{300} = \frac{10}{x}$$ $4x = 3,000$
$$x = 750$$

4.__300__ Makyla sent 120 text messages in the last 12 days. At that rate, how many texts would she send in a month (30 days)?

$$\frac{texts}{days} \frac{120}{12} = \frac{300}{30}$$ ×10

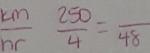5.__39 million__ A football player makes $26 million over 4 years. If his contract continued, how much would he make over a total of 6 years?

$$\frac{\$}{years} \quad \frac{26,000,000}{4} = \frac{}{6}$$ The unit rate is $6,500,000×4
$6,500,000   39,000,000
year.

6.__42__ A recipe for M&M's cookies requires 2 cups of M&M's to make a dozen cookies. How many cookies can be made with 7 cups of M&M's?

$$\frac{cups}{cookies} \frac{2}{12} = \frac{7}{x}$$ ×6

7.__3,000__ If Donald drives 250 km in 4 hours, how far could he drive in 2 full days?

$$\frac{km}{hr} \frac{250}{4} = \frac{}{48}$$

×12

8.__12__ The Chick-fil-A cow hugs 60 kids every 2.5 hours. How many kids would he hug in ½ hour?

$$\frac{hugs}{hr} \frac{60}{2.5} = \frac{}{0.5}$$

÷5