

Name: _____ Period: _____

Week 12 Homework Packet – 7th Grade Math

Score

/4

Week Score

/12

Stamp

ASSIGNMENT DUE TUESDAY, OCTOBER 25, 2016

Unit 2, Chapter 1 – Ratios and Proportional Reasoning

Average speed can be found by dividing distance by time. Use this to solve the problems below. An example has been done for you. ***Show how you set up each problem.***

Ex.) If you drive 150 miles in three hours, what is your average driving speed in miles per hour?

$$150 \text{ miles} \div 3 \text{ hours} = 50 \text{ miles per hour}$$

1) A cheetah runs approximately 180 meters in six seconds. How fast is that in meters per second?

2) A factory can make 1000 light switches in five hours. On average, how many light switches can the factory make in one hour?

3) An Olympic sprinter can run 200 meters in approximately 20 seconds. How many meters per second is that?

4) Sound takes approximately five seconds to travel 5000 feet. How many feet per second does sound travel?

5) A glacier's position is measured. Five years later, it has moved 150 meters. How many meters per year does the glacier move?

Skills Review

Evaluate and simplify each of the following.

SHOW ALL WORK!

6) $\frac{3}{4} - \frac{1}{3}$

7) $\frac{1}{6} + \frac{1}{3}$

8) $\frac{5}{6} - \frac{3}{8}$

9) $\frac{4}{9} - \frac{1}{9}$

10) $\frac{1}{10} + \frac{2}{5}$

11) $\frac{3}{5} + \frac{1}{4}$

12) $\frac{7}{8} - \frac{4}{5}$

Name: _____ Period: _____

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ASSIGNMENT DUE WED/THU. OCTOBER 26/27. 2016

Unit 2, Chapter 1 – Ratios and Proportional Reasoning

Find each unit rate. Round all answers to two decimal places when necessary. You will need a calculator.

- 1) 45 miles in 3 hours

_____ miles per hour

- 2) \$15 for four hats

_____ dollars per hat

- 3) A bag of 50 bricks weighs 250 pounds

_____ pounds per brick

- 4) A fastball travels 60.5 feet in 0.4 seconds

_____ feet per second

- 5) A rain forest erodes 190 square miles in 5 years

_____ square miles per year

- 6) An adult elephant will eat about 2800 pounds of food in a 7-day week

_____ pounds of food per day

- 7) Because of continental drift, Australia has moved about 60 inches in the last 23 years

_____ inches per year

- 8) A box of 12 pencils costs 99 cents.

_____ cents per pencil

Skills Review

Evaluate the following absolute values:

9) $|-47|$

10) $|0|$

11) $|28|$

12) $|-9| - |-4|$

13) $|6 - 11|$

Evaluate each expression below.

14) $3 \times (-6)$

15) $(-4) \cdot 9$

16) $(-2) \cdot (-7)$

ASSIGNMENT DUE FRIDAY, OCTOBER 28, 2016
 Unit 2, Chapter 1 – Ratios and Proportional Reasoning

Simplify each complex fraction below. ***Show all work!***

1) $\frac{\frac{2}{3}}{\frac{3}{8}}$

2) $\frac{\frac{5}{1}}{\frac{1}{4}}$

3) $\frac{\frac{6}{3}}{\frac{3}{5}}$

4) $\frac{\frac{3}{8}}{\frac{5}{8}}$

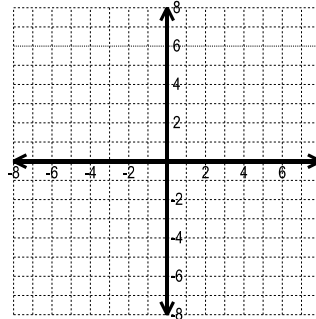
5) $\frac{\frac{5}{6}}{\frac{2}{1}}$

6) $\frac{\frac{4}{5}}{\frac{3}{10}}$

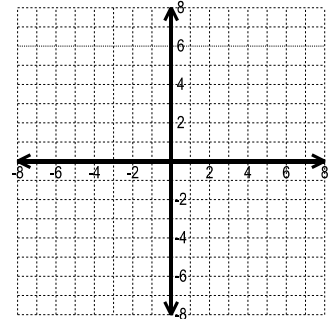
Skills Review

Graph each coordinate below on the given coordinate grid.

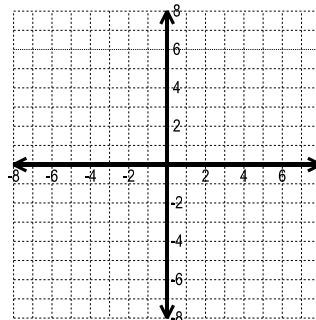
7) (4, -5)



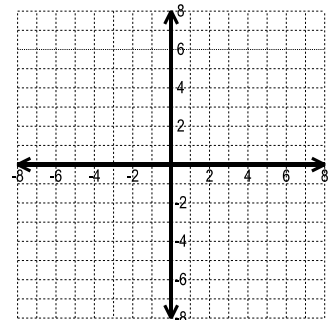
8) (3, -5)



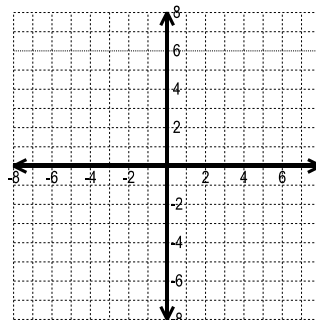
9) (6, 3)



10) (-5, 0)



11) (-2, -3)



12) (0, 6)

