Math 6 – Unit 2: Ratios, Rates, Proportions

End of Unit Test – STUDY GUIDE

Name: **KEY**

Class Period: 1 2 3 4 Date: _____

Vocabulary

Define the following terms:

1) customary system *The primary system used in the U.S., which uses a variety of conversions.*

2) metric system *The system of measurement that uses a base 10 model, used by most countries.*

3) percent *Number out of 100*

4) proportion *An equation of equivalent ratios.*

Problem Solving. Show your work!

5) The ratio of whale sharks to dolphins at the Georgia Aquarium is 1 to 2. Based on that information, what is the missing value in the table?

Whale Sharks	1	6	5	10
Dolphins	2	12	10	20

×6

6) 14 is 20% of what number?

$$\frac{14}{x} = \frac{20 \div 20}{100 \div 20} \frac{1}{5} \Rightarrow \text{Rewrite } \frac{14}{x} = \frac{1}{5} \quad \boxed{x = 70}$$

7) What is 60% of 400?

$$\frac{x}{400} = \frac{4 \times 60}{4 \times 100} \quad \boxed{x = 240}$$

8) Which value of x will make these ratios equivalent? $\frac{12}{6} = \frac{x}{7}$

9) Alyssa pays $48 for 8 tickets to the new Avengers movie. Write the ratio as a unit rate.

10) Jessica drove 288 miles in 4 hours.   Oscar drove 189 miles in 3 hours. Who drove at the faster rate of speed?

11) Stacy the snake is 3 feet long. Owen the fish is 49 inches long. How much longer is Owen than Stacy?
(1 foot = 12 inches)

12) The table below shows the number of tickets sold for each movie.
What does the ratio 5:3 represent?

Item	Avengers	Thor	Captain America	Spider Man
Quantity Sold	12	15	30	10

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