**Math 6 - Unit 2: Ratios, Rates, Proportions** Name:

*End of Unit Test – STUDY GUIDE*

Class Period: 1 2 3 4 Date:

**Vocabulary -** Define the following terms:

1) ratio

2) equivalent

3) percent

4) proportion

**Problem Solving. Show your work!**

1. 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 |  | 10 | 20 |

1. 14 is 20% of what number?
2. What is 60% of 400?
3. Which value of x will make these ratios equivalent?
4. Acayo paid $48 for 8 tickets to the new Avengers movie. Write the ratio as a unit rate.
5. Jessica drove 288 miles in 4 hours. Oscar drove 189 miles in 3 hours. Who drove at the faster rate of speed?
6. Bitey the snake is 3 feet long. Bubbles the fish is 48 inches long. How much longer is Bubbles than Bitey?
7. foot = 12 inches)
8. The ratio of red to blue socks in a drawer is 8:12. If there are 80 red socks in the drawer, how many are blue?
9. There are 80 people eating in a Chinese restaurant. 25% of these people ordered an eggroll. How many people ordered an eggroll?
10. Mariama went out to dinner with her friends and had great service. She wanted to leave a 20% tip. If the bill was $39, how much tip will she leave (20% of 39)?
11. The weight of an elephant is 13 kg. How many grams does the elephant weigh? *(1 kg = 1000 g)*
12. Seventy liters of soda were served at a party. How many kiloliters were served? *(1000 L = 1 kL)*
13. If 1 Ton is equal to 2,000 pounds, how many Tons are equal to 17,000 pounds?