Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_

**Ratios and Proportions Test**

Solve each problem. You must show your work, and don’t forget the units if necessary!

|  |  |
| --- | --- |
| **1.** Anisha bought 5 CD’s for $57.50. What was the unit price for 1 CD? | **2.** The Carolina Hurricanes hockey rink at PNC Arena is 200 feet long. On a scale model of the rink, the rink is 5 inches long. What is the scale of the model?  |
| **3.** Emily bought the same fabric on 3 different occasions and recorded the data below.**Yards of Fabric Total Cost**2.2 $2.533.6 $4.144.2 $4.83What was the price per yard of fabric? | **4.** There are 48 girls in the seventh grade and 46 boys in the eighth grade. Each grade has 100 students. Which statement correctly compares the ratio of boys to total students in each grade?A. The eighth grade ratio is greater.B. The seventh grade ratio is lesser.C. The eighth grade ratio is lesser.D. Both ratios are equal. |
| **5.** At a pet shelter in Cary, there are 50 dogs and 35 cats. What is the ratio of cats to total pets? **Simplify** your ratio, and **write your answer three different ways**!! | **6.** Write a proportion and solve to find the missing measurement. |
| **7.** Are the ratios equivalent?$$ \frac{8}{7}and \frac{24}{21}$$ | **8.** Matt has 6 video racing games and 8 video sport games. Write the ratio of sport games to racing games in simplest form. |
| **9.** Food Lion is selling 24 ounces of butter for $2.64. Kroger is selling 20 ounces of butter for $2.40. Which store has the best buy **and** by how much?  | **10.** Mr. Kaufmann bought 12 kilograms of shrimp for $252 for a party he is having. Mrs. Sauls heard about the great deal and decided to buy 5 kilograms of shrimp. How much will Mrs. Saul’s shrimp purchase cost? |
| **11.** Find the distance between Riverside and Milton if they are 63 km apart on a map with a scale of 4 cm : 21 km. | **12.** A child 4 ½ feet tall casts a 6-foot shadow. A nearby statue casts a 12-foot shadow. How tall is the statue? |
| **13.** The scale on a wall map is 1 inch = 55 miles. What is the distance on the map between two cities that are 4.2 inches apart? | **14.** If a 42.9 ft tall flagpole casts a 253.1 ft long shadow then how long is the shadow that a 6.2 ft tall woman casts? (Round to the tenths place) |
| **15.** In the local coed softball league, the male to female ratio is 6:6. If there are 160 players in the league, how many are female?  | **16.** Find the missing length. |
| **17.** Determine if the table is proportional. If it is, determine the unit rate. If it is not, write N/A for the unit rate.

|  |  |
| --- | --- |
| **Time** **(hours driving)** | **Distance** **(miles covered)** |
| 2 | 130 |
| 4 | 260 |
| 6 | 330 |

Unit Rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Proportional? \_\_\_\_\_\_\_\_\_\_\_\_ | **18.** At Christian’s Coffee Café, he sells five different brands of whole bean coffee, and sells it by the ounce. Fill in the missing values in the table. Then determine the unit rate and write an equation relating the ounces of coffee (c) to the cost in dollars (d).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coffee****(ounces)** | 4 | 6 |  | 10 |  |
| **Price****(dollars)** |  | 2.70 | 2.25 |  | 5.40 |

 Unit Rate: \_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_ |