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Proportions Quiz Review

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| 1. Out of 80 students surveyed, 22 are girls. What is the ratio of boys to the total number of students surveyed? | 2. Uncle Randy used 5 cups of flour to make 8 dozen muffins. How many cups of flour would he need to make 20 dozen muffins? |
| 3. Is the graph proportional? Why or why not? If so, what is the Proportionality? | 4. Isabella made necklaces with beads. Create a graph to determine if the quantities of beads and necklace are proportional. If the quantities are proportional, what is the constant of proportionality? |
| 5. You need to scale the following shape by a factor of 2.5, what will be the area of the new rectangle? | 6. On a map, 2 inches represents 60 miles. If a line between two cities measures 9 inches, how many miles apart are they? |
| 7. On a scale drawing, 3 inches represents 50 miles. If a line segment between two points measured 7 inches, how many miles would it represent? | 8. Solve for x.$$\frac{2}{9}= \frac{15}{x}$$ |
| 9. The Painted Desert is a section of high plateau extending 150 miles on northern Arizona. On a map, the length of this desert is 5 cm. What is the scale? | 10. The scale of a map is 1.25in. = 80 mi. If two cities are 4.75 inches apart on a map, how many miles apart are the cities? |
| 11. Fifty out of 125 eighth graders took summer school. What is the ratio of total number of students to the number of eighth graders taking summer school? **Write in 3 different ways**. | 12. It costs $3.49 for 1 ½ pounds of meat. How much does it cost per pound? |
| 13. Solve for x. | 14. Find w. |
| 15. Ruth is at the park standing next to a slide. Ruth is 5 feet tall, and her shadow is 4 feet long. If the shadow of the slide is 4.8 feet long, what is the height of the slide? | 16. At a local animal rescue center, the ratio of dogs to cats is 7:5. If there are a total of 120 dogs and cats the center, how many of them are dogs? |