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6th Grade Unit 4 Practice Test Questions

1. The ratio of boys to girls in a class is 1 to 5. There are 36 students in the class. How many of the students are girls?

2. Lindsey is baking cupcakes for a party. The recipe says to use 2 cup of sugar and 4 cups of flour. She needs more cupcakes than what one recipe will make. When multiplying the recipe she uses 6 cups of flour. How many cups of sugar will she need?

3. In a classroom, the ratio of boys to girls is 4 to 3. Write three equivalent ratios to this one.

4. A cloth bag contains 5 pennies and 3 dimes. What is the ratio of pennies to dimes in the bag?

Logan shakes the bag, reaches in and pulls out the first coin he touches, and replaces it in the bag. He does this 15 times. His picks are shown below:

Penny	Penny	Dime	Dime	Penny
Penny	Dime	Penny	Dime	Penny
Penny	Dime	Penny	Dime	Penny

Calculate the ratio of pennies to dimes in the bag and the ratio of pennies to dimes for the coins Logan pulled out. Explain your answer.

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5. During a math test, Jaime finished 6 items in 2 minutes. At this rate, how long did it take him to finish the 66-item test?

6. Some species of bamboo are the fastest growing plants in the world. These species grow about 78 centimeters per day. At this rate, about how many centimeters do they grow per hour?

7. A factory manufactures 3,185 tires each hour. After 4 hours, 416 tires were found to be defective. In the next hour, how many of the tires can you expect to be defective?

8. The ratio of boys to girls in Mrs. Jensen's science class is 2:5. There are 8 boys in the class. How many girls are in the class?

9. Nine concert tickets cost \$360. What is the cost of 4 tickets to the same concert?

10. Rachel can type 30 words a minute. Write the proportion you would use to figure out how many words she types in 8 minutes.

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11. A potato bug traveled 12 yards at a constant speed for 4 minutes. At what speed was the ladybug traveling?

12. What is 35% of 600?

13. Chance earns 6.5% interest on the money in his bank account. How much interest would he earn on a balance of \$400?

14. How many inches are in 5 $\frac{1}{4}$ feet?

15. A killer whale measures 7 meters long. How long is the whale in centimeters?

16. Study this proportion: $\frac{7}{8} = \frac{35}{x}$. What is the missing number?

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17. Correctly fill in the chart.

Feet	1	2	3	4	5
Inches					

18. Use circles to draw a picture of 50%.

Use circles to draw a picture of 175%.