Name _____

Problem Solving • Percents

Read each problem and solve.

1. On Saturday, a souvenir shop had 125 customers. Sixty-four percent of the customers paid with a credit card. The other customers paid with cash. How many customers paid with cash?

$$1\% \text{ of } 125 = \frac{125}{100} = 1.25$$

$$64\% \text{ of } 125 = 64 \times 1.25 = 80$$

$$125 - 80 = 45 \text{ customers}$$

2. A carpenter has a wooden stick that is 84 centimeters long. She cuts off 25% from the end of the stick. Then she cuts the remaining stick into 6 equal pieces. What is the length of each piece?

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3. Mike has $136 to spend at the amusement park. He spends 25% of that money on his ticket into the park. How much does Mike have left to spend?

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4. A car dealership has 240 cars in the parking lot and 17.5% of them are red. Of the other 6 colors in the lot, each color has the same number of cars. If one of the colors is black, how many black cars are in the lot?

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5. The utilities bill for the Millers' home in April was $132. Forty-two percent of the bill was for gas, and the rest was for electricity. How much did the Millers pay for gas, and how much did they pay for electricity?

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6. Andy's total bill for lunch is $20. The cost of the drink is 15% of the total bill and the rest is the cost of the food. What percent of the total bill did Andy's food cost? What was the cost of his food?

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