

12)

The owner of a car dealership surveyed 50 customers about the kind of vehicle they wanted to buy. The chart shows the results of the survey.

Vehicle	Number of Customers
Sedan	16
Minivan	10
Sports Car	6
SUV	10
Truck	8

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If the owner surveyed 200 more customers, how many would you expect to be looking for a sedan?

$$\frac{16}{50} \rightarrow \frac{4}{200} = 64 \text{ customers might be looking for a Sedan.}$$

13) I

Jim has 12 marbles of different colors: 3 blue, 5 red, and 4 white. He draws a marble from the bag, records its color and returns it to the bag. Then he draws another marble and records its color. What is the probability that Jim will draw two white marbles? *compound*

$$\frac{4}{12} \cdot \frac{4}{12} =$$

$$\frac{1}{3} \cdot \frac{1}{3} = \frac{1}{9}; .111, 11\% \text{ unlikely.}$$

14) D

Tot: 7

A bag contains 4 orange marbles and 3 yellow marbles. If a yellow marble is drawn and not put back, what is the probability of selecting another yellow marble?

$$\frac{2}{6} = \frac{1}{3} = .33 = 33\% \text{ choosing a yellow}$$

15)

A cube with the numbers 2, 4, 6, 8, 10, and 12 is rolled. What is the probability of rolling a 2 or 6?

$$\frac{2}{6} = \frac{1}{3} = .33 = 33\%$$

Theoretical Probability

16)

A cube with the numbers 2, 4, 6, 8, 10, and 12 is rolled. What is the probability of rolling a factor of 24? *✓✓✓✓*

$$\frac{5}{6}$$

Theoretical Probability