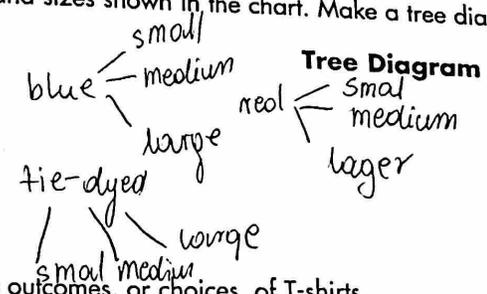
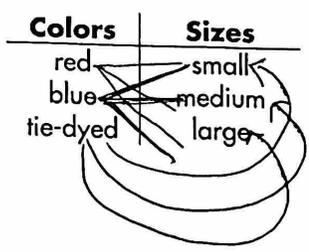
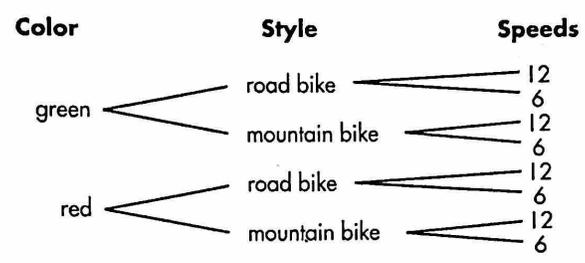


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1. A store sells T-shirts in the colors and sizes shown in the chart. Make a tree diagram.



- a. There are _____ possible outcomes, or choices, of T-shirts.
 - b. Suppose the store has just 1 of each size and color. If you select a T-shirt at random, the probability that you will choose a large shirt is _____.
2. The tree diagram below shows the combinations of colors, styles, and speeds of bicycles available at a bicycle shop. You select one at random.



- a. There are _____ combinations of bicycles from which to choose.
- b. The probability of choosing a green bicycle is _____.
- c. The probability of choosing a 6-speed mountain bicycle is _____.
- d. The probability of choosing a red, 12-speed road bicycle is _____.

3. You roll a 6-sided die and flip a coin. What is the probability of getting an even number on the die and heads on the coin?

P(even) and P(heads) is $\frac{1}{4}$.

4. A jar of jellybeans has 6 blue, 2 orange, and 8 red jellybeans. You choose 1 jellybean, put it back, and then choose another. What is the probability that you choose 2 blue jellybeans?

The probability of choosing 2 blue jellybeans is $\frac{9}{64}$.

Two events A and B are independent. You select a yellow ball. What is the probability of selecting a yellow ball and 8 red jellybeans?