



## Review

## Do You Know How?



## Predicting Outcomes (5-10)

There are 6 blue marbles, 5 red marbles, and 4 green marbles in a bag. You draw one marble out of the bag.

- Which color marble are you most likely to draw out of the bag? **Blue**
- Is drawing a red marble more or less likely than drawing a green marble?  
**More likely**
- Are any of the colors equally likely?  
**No**

## Listing Outcomes (5-11)

A concession stand offers hamburgers, hot dogs, or chicken as main dishes; french fries or fruit as side dishes; and water, soda, or juice as beverages.

- Draw a tree diagram to determine how many different lunches there are.  
**See margin.**
- How many lunches include soda?  
**6 lunches**
- How many lunches include a hot dog and french fries? **3 lunches**

## Expressing Probability as a Fraction (5-12)

Use the spinner.

- Find  $P(\text{green})$   $\frac{1}{8}$
- Find  $P(\text{red})$   $\frac{2}{8}$  or  $\frac{1}{4}$
- Find  $P(\text{blue})$   $\frac{2}{8}$  or  $\frac{1}{4}$
- Find  $P(\text{not blue})$   $\frac{6}{8}$  or  $\frac{3}{4}$
- Name two colors that have an equal chance of occurring.  
**Sample answer: red and blue**



## Do You Understand?



**Sample answer: drawing a yellow marble**

- Describe an event about drawing a marble that is impossible. **See above.**
- Tell how you determined the answer to Exercise 3. **Sample answer: I looked to see if there were equal numbers of any colors, but there were not.**

**Multiply the number of main dish choices by the number of side dish choices by the number of beverage choices to get  $3 \times 2 \times 3 = 18$ .**

- Explain how you could have found the answer to Exercise 4, without using a tree diagram. **See above.**
- Explain how the number of outcomes would change if chicken was not offered as a main dish. **Eliminating chicken removes 6 lunches, leaving 12 lunch outcomes.**

**Sample answer: I counted all the colors that were not blue to get 6 and put 6 over the total number of spaces to get  $\frac{6}{8}$  or  $\frac{3}{4}$ .**

- Tell how you found the probability in Exercise 10. **See above.**
- Explain how to determine which colors have an equal chance of occurring. **Find colors that have the same number of spaces on the spinner.**
- Does any one color have the greatest chance of occurring? Explain why or why not. **No; Red and blue both have 2 spaces, which is the largest number of times a color occurs.**