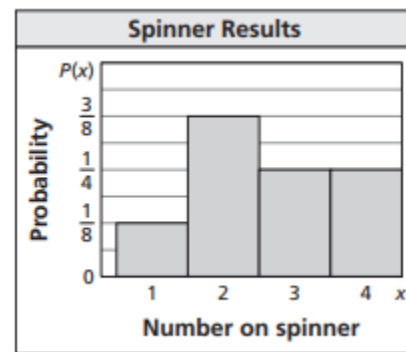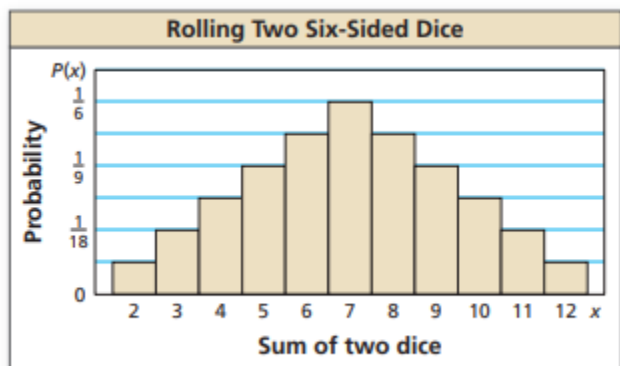Sec 5.6 B   Probabilityl Distributions

1. Use the probability distribution to determine:
   a. the number most likely to be spun on the spinner
   b. the probability of spinning a 4
   c. which number on the spinner had a probability of ⅛
   d. the likelihood of spinning an odd number.

Spinner Results

2. Use the Probability Distribution histogram of the sum when rolling two six-sided dice.

   a. What is the probability of rolling a sum of 5?
   b. What is the probability of rolling a sum greater than 8?
   c. What is the probability that the sum is at most 4?
   d. Which rolls have a probability of 1/9?
   e. Which rolls have a probability less than 1/18?

3. Displaying data from a Binomial Experiment.

According to the results of a survey, 60% of high school students plan to purchase a yearbook. You ask 5 people chosen at random whether they plan to purchase a yearbook.

   a. Calculate the data needed for a histogram and draw the histogram.
      (You need the likelihood of 0 yes, 1 yes, 2 yes, 3 yes, 4 yes, and 5 yes using binomial experiment formula)

   b. What is the most likely outcome of your survey?

   c. What is the probability that at least 3 people plan to purchase a yearbook?

   d. What is the probability that no students plan to purchase a yearbook?