



LESSON

8-2

Practice

Experimental Probability

Find the experimental probability. Write your answer as a fraction, as a decimal, and as percent.

1. Jaclyn is a soccer goalie. If she has 21 out of 25 saves in practice, what is the experimental probability that she will have a save on the next shot on goal? _____
2. If Harris hit the bull's-eye 3 out of 8 times at archery practice, what is the experimental probability that he will hit the bull's-eye on his next try? _____
3. Nathan inspects new pants at a factory. Of the first 56 pairs of pants he inspected 49 were acceptable. What is the experimental probability that the next pairs of pants will be acceptable? _____
4. Sara has gone to work for 60 days. On 39 of those days she arrived at work before 8:30 A.M. On the rest of the days she arrived after 8:30 A.M. What is the experimental probability that she will arrive at work after 8:30 A.M. the next day she goes to work? _____

Solve:

5. After a movie premiere, 99 of the first 130 people surveyed said they liked the movie.
 - a. What is the experimental probability that the next person surveyed will say he or she liked the movie? _____
 - b. What is the experimental probability that the next person surveyed will say he or she did not like the movie? _____
6. For the past 30 days, Naomi has been recording the number of customers at her restaurant between 10 A.M. and 11 A.M. During that hour, there have been fewer than 20 customers on 25 out of 30 days.
 - a. What is the experimental probability that there will be fewer than 20 customers on the thirty-first day? _____
 - b. What is the experimental probability that that there will be more than 20 customers on the thirty-first day? _____
7. For the past four weeks, Nestor has been recording the daily high temperatures. During that time, the high temperature has been below 45° on 20 out of 28 days. What is the experimental probability that the high temperature will be below 45° on the twenty-ninth day? _____