

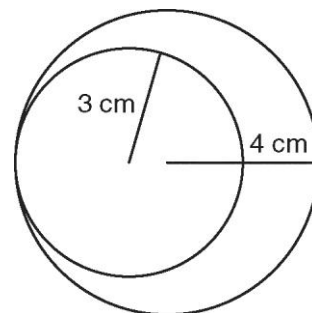
Practice B

Theoretical and Experimental Probability

Solve.

1. A fruit bowl contains 4 green apples and 7 red apples. What is the probability that a randomly selected apple will be green? _____
2. When two number cubes labeled 1–6 are rolled, what is the probability that the result will be two 4's? _____
3. Joanne is guessing which day in November is Bess's birthday. Joanne knows that Bess's birthday does not fall on an odd-numbered day. What is the probability that Joanne will guess the correct day on her first try? _____
4. Tom has a dollar's worth of dimes and a dollar's worth of nickels in his pocket.
 - a. What is the probability he will randomly select a nickel from his pocket? _____
 - b. What is the probability he will randomly select a dime from his pocket? _____
5. Clarice has 7 new CDs; 3 are classical music and the rest are pop music. If she randomly grabs 3 CDs to listen to in the car on her way to school, what is the probability that she will select only classical music? _____

6. Find the probability that a point chosen at random inside the larger circle shown here will also fall inside the smaller circle.



Frank is playing darts. The results of his throws are shown in the table below. Assume that his results continue to follow this trend.

Color Hit	Number of Throws
Blue	12
Red	5
White	2

Find the experimental probability of each event.

7. Frank's next throw will hit white. _____
8. Frank's next throw will hit blue. _____
9. Frank's next throw will hit either red or white. _____
10. Frank's next throw will NOT hit red. _____

**THEORETICAL AND
EXPERIMENTAL PROBABILITY**

Practice B - Answers

1. $\frac{4}{11}$

2. $\frac{1}{36}$

3. $\frac{1}{15}$

4. a. $\frac{2}{3}$

b. $\frac{1}{3}$

5. $\frac{1}{35}$

6. $\frac{9}{16}$

7. $\frac{2}{19}$

8. $\frac{12}{19}$

9. $\frac{7}{19}$

10. $\frac{14}{19}$