

LESSON

8-3

Practice C***Theoretical Probability***

Find the probability of each event. Write your answer as a fraction, as a decimal, and as a percent. Round to the nearest tenth of a percent.

1. tossing three fair quarters and having all three of them land on heads

2. randomly choosing a classical CD from a collection of CDs consisting of 35 jazz CDs, 20 classical CDs, 25 rock CDs, and 5 country music CDs

3. randomly choosing a card with an even number from a shuffled deck of 52 cards with four 13-card suits (diamonds, hearts, clubs and spades), each of which has 9 number cards labeled 2-10 and 4 other cards

4. randomly drawing a vowel from a bag of 100 Scrabble® tiles that has 12 E's, 9 I's, 8 O's, 4 U's and 2 Y's.

There are 15 girls and 9 boys in Anne's yoga class. One of them is randomly selected to demonstrate a yoga position. Find the probability of each event.

5. selecting a boy _____
6. selecting a girl _____

Find the probability of each event when two 1-6 number cubes are rolled.

7. $P(\text{total of } 5)$ _____
8. $P(\text{total of } 10)$ _____
9. $P(\text{total} \geq 7)$ _____
10. $P(\text{total} < 2)$ _____