Name: Period:

Lesson 11-1 Classwork

Calculators OK

Question Set A

A bag contains 10 marbles. There are 4 white marbles, 4 pink marbles and 2 green marbles. One marble is chosen at random. Answer the questions that follow.

1. It is _________ that a white marble is drawn. (Circle “likely” or “unlikely”)
2. It is _________ that a pink marble is drawn. (Circle “likely” or “unlikely”)
3. It is _________ that a green marble is drawn. (Circle “likely” or “unlikely”)
4. It is _________ that a green or a pink marble is drawn. (Circle “likely” or “unlikely”)
5. There is an equal chance of drawing a white or pink marble. (Circle “true” or “false”)
6. There is an equal chance of drawing a white or green marble. (Circle “true” or “false”)
7. The probability that a <u>white</u> marble is drawn is $\frac{4}{10}$ or $\frac{2}{5}$ or 0.4 or 40%.

   (Circle “true” or “false”)
8. What is the probability of drawing a green marble?

   Fraction: Decimal: Percent:

Question Set B

20 t-shirts are being given away. There are 4 purple shirts, 4 orange shirts and 12 black shirts. One shirt is chosen at random. Answer the questions that follow.

1. It is _________ that a purple shirt is drawn. (Circle "likely" or "unlikely")
2. It is _________ that a black shirt is drawn. (Circle "likely" or "unlikely")
3. It is _________ that a purple or an orange shirt is drawn. (Circle "likely" or "unlikely")
4. There is an equal chance of drawing a purple or orange shirt. (Circle "true" or "false")
5. There is an equal chance of drawing an orange or black shirt. (Circle "true" or "false")
6. The probability that a purple shirt is drawn is $\frac{4}{20}$ or $\frac{1}{5}$ or 0.2 or 20%.

   (Circle "true" or "false")
7. What is the probability of drawing a black shirt?

   Fraction: Decimal: Percent:

Question Set C

Five coins are in a purse. There are 2 quarters, 1 dime, 1 nickel and 1 penny. One coin is chosen at random. Answer the questions that follow.

1. It is _________ that a quarter is drawn. (Circle "likely" or "unlikely")
2. It is _________ that a dime or nickel is drawn. (Circle "likely" or "unlikely")
3. It is _________ that a quarter or penny is drawn. (Circle "likely" or "unlikely")
4. There is an equal chance of drawing a quarter or penny. (Circle "true" or "false")
5. There is an equal chance of drawing a dime or nickel. (Circle "true" or "false")
6. The probability that a dime, nickel or penny is drawn is $\frac{3}{5}$ or 0.6 or 60%.

   (Circle "true" or "false")
7. What is the probability of drawing a quarter?

   Fraction: Decimal: Percent:

Question Set D

There are 25 marbles in a bag. 14 are blue, 8 are green and 3 are pink. One marble is drawn at random. Answer the questions that follow.

1. It is _________ that a blue marble will be drawn. (Circle "likely" or "unlikely")
2. It is _________ that a green marble will be drawn. (Circle "likely" or "unlikely")
3. It is _________ that a green or pink marble will be drawn. (Circle "likely" or "unlikely")
4. It is _________ that a blue or pink marble will be drawn. (Circle "likely" or "unlikely")
5. There is an equal chance of drawing a green or pink marble. (Circle "true" or "false")
6. The probability that a blue marble is drawn is $\frac{14}{25}$ or 0.56 or 56%.

   (Circle "true" or "false")
7. What is the probability of drawing a green marble?

   Fraction: Decimal: Percent:

Question Set E

You roll a number cube with sides numbered 1-6. Match a letter to each blank below.

impossible (I) -- unlikely (U) -- an even 50% chance (E) -- likely (L) -- certain (C)

1. It is _____ that a number under 8 will be rolled.
2. It is _____ that a number under 5 will be rolled.
3. It is _____ that a number under 2 will be rolled.
4. It is _____ that a number over 6 will be rolled.
5. It is _____ that an 1, 2, or 3 will be rolled.
6. It is _____ that an 4, 5, or 6 will be rolled.
7. It is _____ that a 6 will be rolled.
8. It is _____ that a 3, 4, 5, or 6 will be rolled.

Question Set F

Enter one of the following in each blank below.

impossible (I) -- unlikely (U) -- an even 50% chance (E) -- likely (L) -- certain (C)

1. If an event has a probability of 63%, then it is _____ to occur.
2. If an event has a probability of 0.3, then it is _____ to occur.
3. If an event has a probability of $\frac{1}{2}$, then it is _____ to occur.
4. If an event has a probability of 0.9%, then it is _____ to occur.
5. If an event has a probability of 0.5, then it is _____ to occur.
6. If an event has a probability of $\frac{3}{3}$, then it is _____ to occur.
7. If an event has a probability of 7.5%, then it is _____ to occur.
8. If an event has a probability of 0, then it is _____ to occur.
9. If an event has a probability of $\frac{1}{3}$, then it is _____ to occur.
10. If an event has a probability of $\frac{2}{3}$, then it is _____ to occur.