Simple Probability

$$\textcolor{red}{\textbf{Probability} = \frac{success}{total}}$$

_____1. What is the probability an event won't occur?

      a. 0   b. 1

      c. 100   d. 50

_____2. What's the probability an event will always occur?

      a. 0   b. 1

      c. 50   d. 100

_____3. Which of the following numbers can <u>NOT</u> be used to express a probability?

      a. 5/9   b. 2/3

      c. 20%   d. 110%

_____3. The probability of an event occurring is 0.7. What is the probability it won't occur?

      a. 0.7   b. 0.3

      c. 0   d. 1

_____4. There are 21 girls and 16 boys. What is the probability a girl will be chosen?

      a. $\frac{21}{16}$ b. $\frac{16}{21}$

      c. $\frac{21}{37}$ d. $\frac{16}{37}$

_____5. You are a playing a game that uses an 8-sided die.
What's the probability it will land on a 6?

  a. $\frac{1}{8}$ b. $\frac{1}{6}$

  c. $\frac{3}{4}$ d. 1

_____6. When rolling a fair six-sided die, what is the probability of rolling a number
greater than four?

  a. $\frac{5}{6}$ b. $\frac{1}{2}$

  c. $\frac{1}{3}$ d. $\frac{2}{3}$

_____7. When a coin is tossed a single time, what is the probability that it will land
with the tails up?

  a. 0   b. 1

  c. $\frac{1}{2}$ d. $\frac{1}{4}$

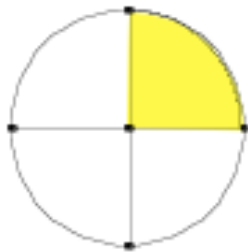_____8. What is the probability of landing on a prime number?

  a. $\frac{1}{4}$ b. $\frac{1}{2}$

  c. $\frac{5}{8}$ d. $\frac{3}{8}$

_____9. Using the spinner, with equally sized regions, what is the probability that
you will spin a two, three, or an eight?

  a. $\frac{1}{4}$ b. $\frac{1}{2}$

  c. $\frac{5}{8}$ d. $\frac{3}{8}$

_____10. The spinner is divided into 4 equal areas. If Steve spins the spinner 64 times, how many times can he expect to land in the shaded region?

a. 16   b. 48

c. $\frac{1}{4}$ b. 256

_____11. What is the probability that a spinner will land in the pink or green area?

a. $\frac{2}{5}$ b. $\frac{3}{5}$

c. $\frac{1}{2}$ d. $\frac{3}{8}$

_____12. There are 3 blue, 2 red, and 4 yellow marbles in a bag. If one marble is chosen at random, what is the probability that it will be blue?

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

c. $\frac{2}{3}$ d. 6

_____13. A bag contains 2 green, 4 blue, 4 white, and 4 yellow marbles. What is the probability of selecting a marble that is NOT white or green out of the bag?

a. $\frac{3}{7}$ b. $\frac{4}{7}$

c. $\frac{5}{7}$ d. $\frac{1}{2}$