NAME _____

Lesson 1.2 Calculating Probability

Probability can also be thought of as the ratio of desired outcome(s) to the sample space. It can be expressed as a ratio, fraction, decimal, or percent.

When tossing a coin, what is the probability that it will land on heads?

desired outcome: heads   sample space: heads, tails   probability: 1:2, $\frac{1}{2}$, 50%, 0.5

Find the probability. Write answers as fractions in simplest form.

A box contains 3 red pencils, 4 blue pencils, 2 green pencils, and 1 regular pencil. If you take 1 pencil without looking, what is the probability of picking each of the following?

1. a red pencil $\frac{3}{10}$

2. a blue pencil $\frac{2}{5}$

3. a green pencil $\frac{1}{5}$

4. a regular pencil $\frac{1}{10}$

If you spin the spinner shown at the right, what is the probability of the spinner stopping on each of the following?

5. a letter $\frac{1}{2}$

6. an odd number $\frac{1}{3}$

7. an even number $\frac{1}{6}$

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

9. the number 3 $\frac{1}{6}$

10. a consonant $\frac{1}{3}$