Name: _____   Date: _____

Learning Goal 9.1	I can calculate probabilities.

1. Determine the following probabilities if you are considering the roll of a single 6-sided die. Write your answers in lowest terms.

   a. $P(5) = \dfrac{1}{6}$ b. $P(1) = \dfrac{1}{6}$ c. $P(\geq 5) = \dfrac{1}{3}$

   d. $P(< 3) = \dfrac{1}{3}$ e. $P(\leq 3) = \dfrac{1}{2}$ f. $P(\geq 1) = 1$

2. Calculate the following probabilities if you are considering a single spin of the following spinner. Write your answers in lowest terms.

   a. Landing on an H.
   $$P(H) = \frac{3}{10}$$
   b. Landing on an L.
   $$P(L) = \frac{1}{5}$$
   c. Landing on a G.
   $$P(G) = \frac{1}{10}$$
   d. Not landing on an H.
   $$P(H') = \frac{7}{10}$$
   e. Landing on a G or an L.
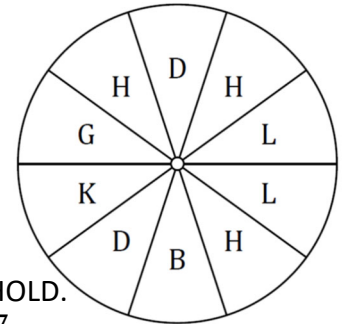 $$P(G \text{ or } L) = \frac{3}{10}$$
   f. Landing on any letter in the word HOLD.
   $$P(H \text{ or } L \text{ or } D) = \frac{7}{10}$$

3. Calculate the following probabilities if you are considering a single spin of the following spinner. Write your answers in lowest terms.

   a. Landing on a beetle.
   $$P(\text{beetle}) = \frac{1}{10}$$
   b. Landing on a porcupine.
   $$P(\text{porcupine}) = \frac{3}{10}$$
   c. Landing on a snail.
   $$P(\text{snail}) = \frac{1}{10}$$
   d. Landing on a porcupine or a snail.
   $$P(\text{porcupine or snail}) = \frac{2}{5}$$

   e. Landing on an animal without legs.
   $$P(\text{legs}') = \frac{1}{5}$$
   f. Landing on an animal with a tail.
   $$P(\text{tail}) = \frac{4}{5}$$