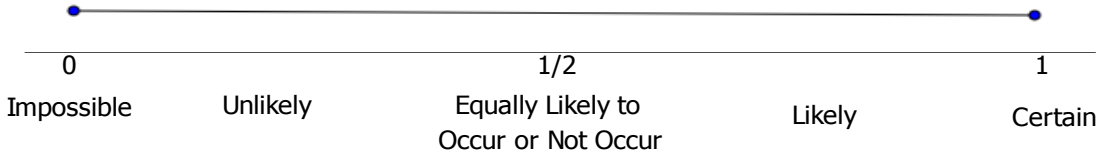
Lesson Summary

- *Probability* is a measure of how likely it is that an event will happen.
- A probability is a number between 0 and 1.
- The probability scale is as follows:

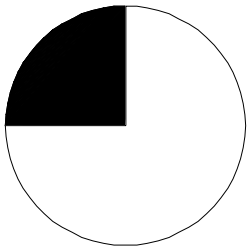
Probability Scale



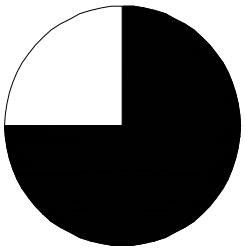
Problem Set

1. Match each spinner below with the words *impossible*, *unlikely*, *equally likely to occur or not occur*, *likely*, and *certain* to describe the chance of the spinner landing on black.

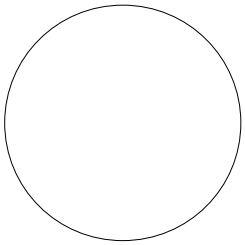
Spinner A



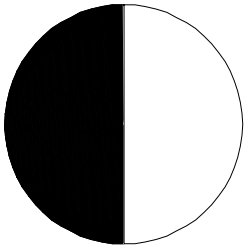
Spinner B



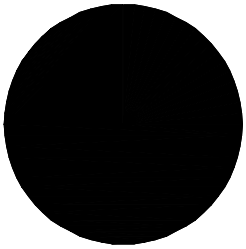
Spinner C



Spinner D

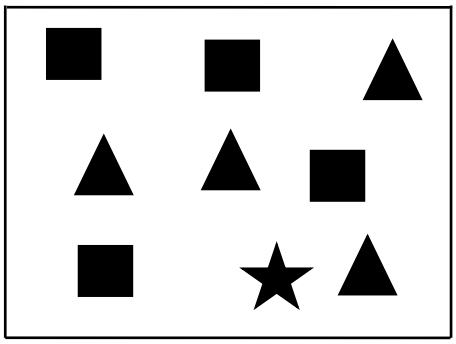


Spinner E



2. Decide if each of the following events is *impossible*, *unlikely*, *equally likely to occur or not occur*, *likely*, or *certain* to occur.
   a. A vowel will be picked when a letter is randomly selected from the word *lieu*.
   b. A vowel will be picked when a letter is randomly selected from the word *math*.
   c. A blue cube will be drawn from a bag containing only five blue and five black cubes.
   d. A red cube will be drawn from a bag of 100 red cubes.
   e. A red cube will be drawn from a bag of 10 red and 90 blue cubes.

3. A shape will be randomly drawn from the box shown below. Decide where each event would be located on the probability scale. Then, place the letter for each event on the appropriate place on the probability scale.



Event:

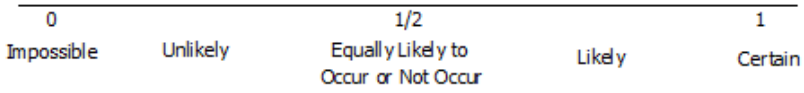
A. A circle is drawn.

B. A square is drawn.

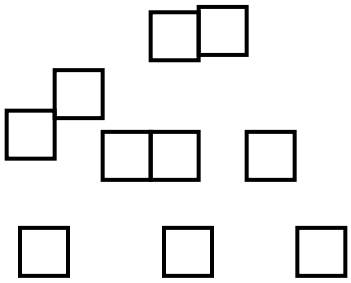
C. A star is drawn.

D. A shape that is not a square is drawn.

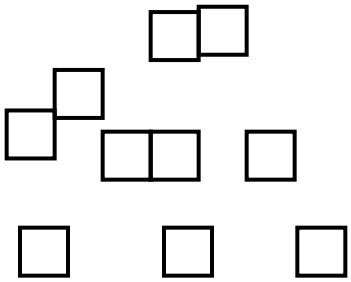
Probability Scale



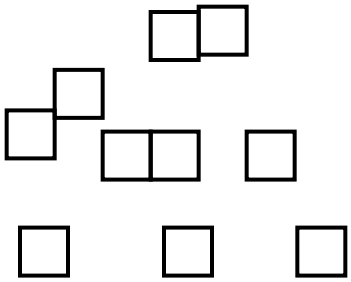
4. Color the squares below so that it would be equally likely to choose a blue or yellow square.



5. Color the squares below so that it would be likely but not certain to choose a blue square from the bag.



6. Color the squares below so that it would be unlikely but not impossible to choose a blue square from the bag.



7. Color the squares below so that it would be impossible to choose a blue square from the bag.