

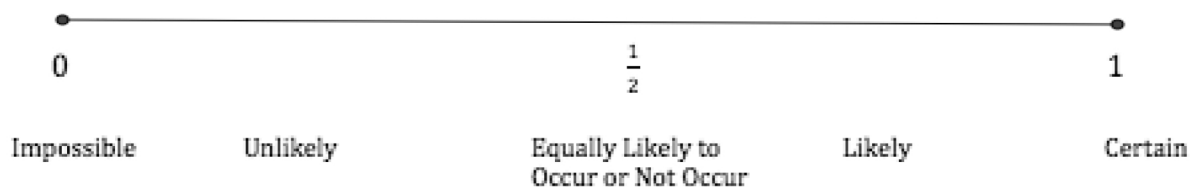
Name \_\_\_\_\_

Date \_\_\_\_\_

## Chance Experiments

Decide where each of the following events would be located on the scale below. Place the letter for each event on the appropriate place on the probability scale.

### PROBABILITY SCALE



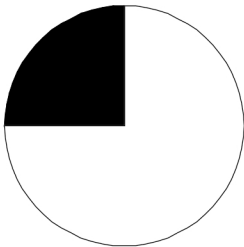
The numbers from 1 to 10 are written on small pieces of paper and placed in a bag. A piece of paper will be drawn from the bag.

- A. A piece of paper with a 5 is drawn from the bag.
- B. A piece of paper with an even number is drawn.
- C. A piece of paper with a 12 is drawn.
- D. A piece of paper with a number other than 1 is drawn.
- E. A piece of paper with a number divisible by 5 is drawn.

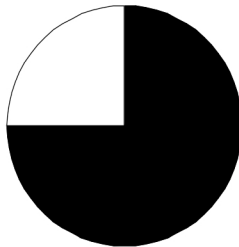


1. Match each spinner below with the words *impossible*, *unlikely*, *equally likely to occur or not occur*, *likely*, and *certain* to describe the chance of the spinner landing on black.

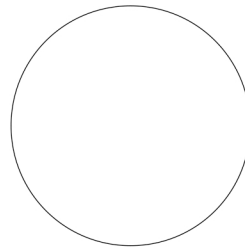
**Spinner A**



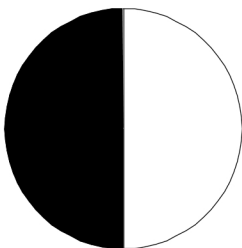
**Spinner B**



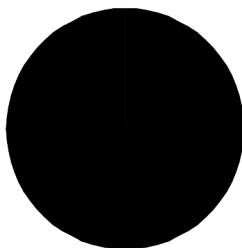
**Spinner C**



**Spinner D**

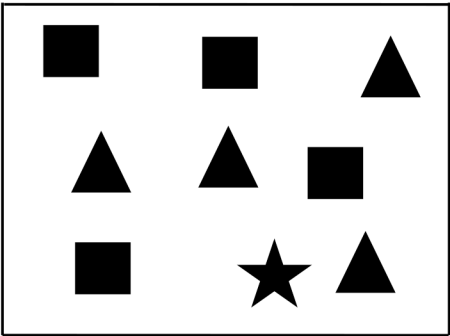


**Spinner E**





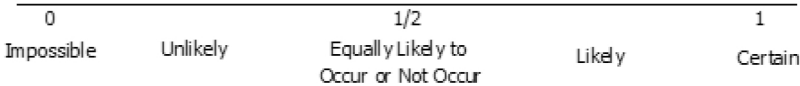
2. Decide if each of the following events is *impossible*, *unlikely*, *equally likely to occur or not occur*, *likely*, or *certain* to occur.
- a. A vowel will be picked when a letter is randomly selected from the word *lieu*.
  - b. A vowel will be picked when a letter is randomly selected from the 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:

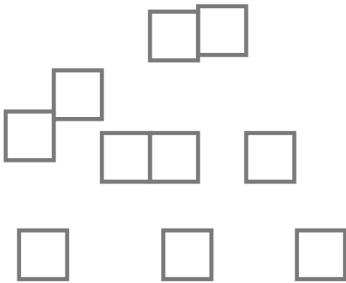
- A. A circle is drawn.
- B. A square is drawn.
- C. A star is drawn.
- D. A shape that is not a square is drawn.

Probability Scale

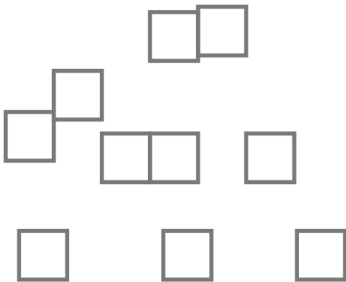




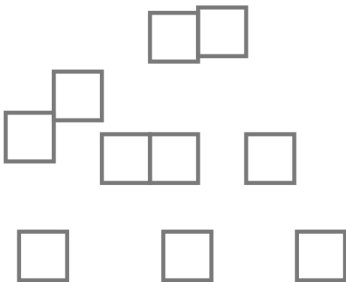
4. Color the cubes below so that it would be equally likely to choose a blue or yellow cube.



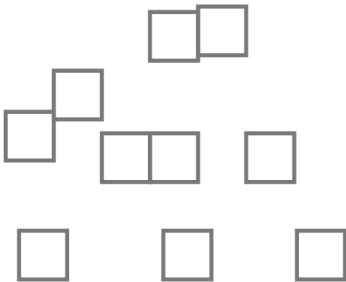
5. Color the cubes below so that it would be likely but not certain to choose a blue cube from the bag.



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



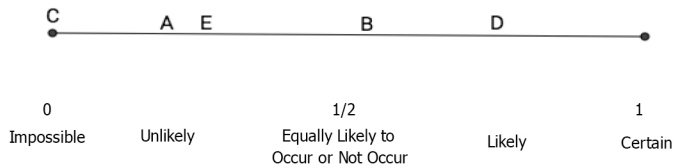
7. Color the cubes below so that it would be impossible to choose a blue cube from the bag.





Decide where each of the following events would be located on the scale below. Place the letter for each event on the appropriate place on the probability scale.

### Probability Scale



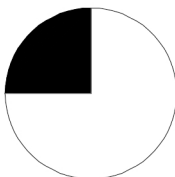
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- C. A piece of paper with a 12 is drawn.
- D. A piece of paper with a number other than 1 is drawn.
- E. A piece of paper with a number divisible by 5 is drawn.

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.

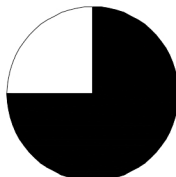
Spinner A: *unlikely*

Spinner A



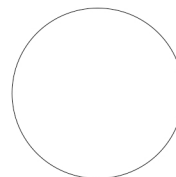
Spinner B: *likely*

Spinner B



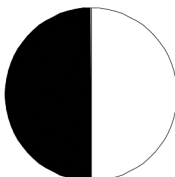
Spinner C: *impossible*

Spinner C



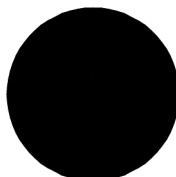
Spinner D: *equally likely*

Spinner D



Spinner E: *certain*

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*.

*Likely; most of the letters of the word lieu are vowels.*

- b. A vowel will be picked when a letter is randomly selected from the word *math*.

*Unlikely; most of the letters of the word math are not vowels.*

- c. A blue cube will be drawn from a bag containing only five blue and five black cubes.

*Equally likely to occur or not occur; the number of blue and black cubes in the bag is the same.*

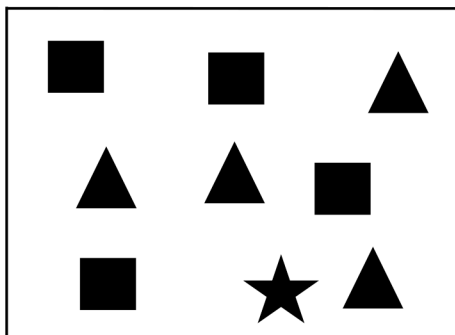
- d. A red cube will be drawn from a bag of 100 red cubes.

*Certain; the only cubes in the bag are red.*

- e. A red cube will be drawn from a bag of 10 red and 90 blue cubes.

*Unlikely; most of the cubes in the bag are blue.*

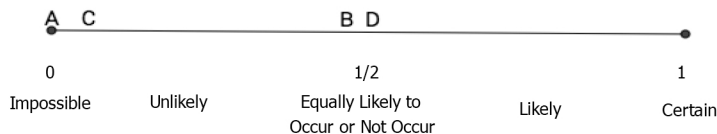
3. A shape will be randomly drawn from the box shown below. Decide where each event would be located on the probability scale. Then, place the letter for each event on the appropriate location on the probability scale.



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.

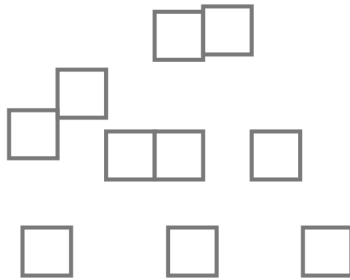
### Probability Scale





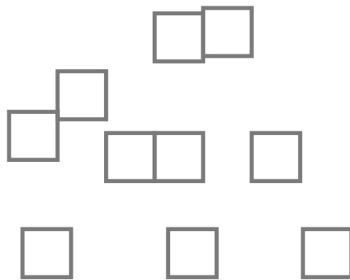
4. Color the cubes below so that it would be equally likely to choose a blue or yellow cube.

*Color five blue and five yellow.*



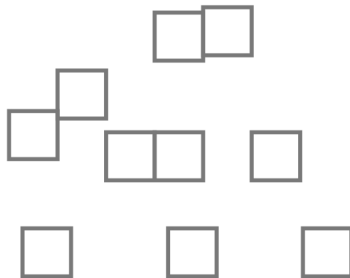
5. Color the cubes below so that it would be likely but not certain to choose a blue cube from the bag.

*Color 7, 8, or 9 cubes blue and the rest any other color.*



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

*Color 1, 2, or 3 cubes blue and the others any other color.*



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

*Color all cubes any color but blue.*

