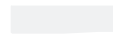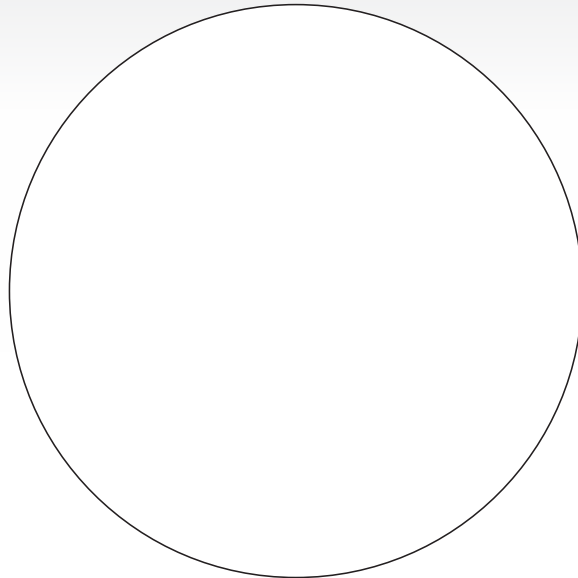# Activity One

1) Design your own functioning spinner by cutting out the circle and pointer below. Attach the pointer to the center of your spinner using brass fasteners. Then, include 6 of your own colors. Number the colors 1 through 6. Answer the questions based on your spinner.

a) **Is it more or less likely to land on the first color than the second?**

b) **Is it more or less likely to land on the third color than the second?**

c) **What three other colors have you chosen for your spinner?**

d) **Is it likely or unlikely that the spinner will land on any of the other three colors?**

Activity Two

2) Use the data below to create a chart or table that shows the growth of each plant overnight.

Orchid	3 cm (1 inch) overnight
Geranium	24 cm (9 inches) overnight
Cactus	6 cm (2 inches) overnight
Spider Plant	29 cm (11 inches) overnight
African Violet	1 cm (0.4 inch) overnight

Create your chart or table below, then answer the questions.

a) Which plant grows the most overnight?

b) How many more cm (inches) does the Spider Plant grow over the Orchid?

c) How many days does it take the Cactus to grow 23 cm (9 inches)?

d) Which plant will grow the least in seven days? How do you know?

e) What other questions can you ask using the information about the plants from your chart or table?

_____

_____

Activity Three

3) Answer the following questions by determining the probability.

a) **If a letter is chosen at random from the word *Independent*, what is the probability of the letters "e" and "n" being chosen?**

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

b) **If a letter is chosen at random from the word *consideration*, what is the probability of the letter "i" being chosen?**

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

c) **If a person were to choose a letter from the alphabet at random, what is the probability that it would be a vowel?**

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

A bag contains 12 blue marbles, 4 red marbles, 3 black marbles, and 2 yellow marbles. Find the probability of:

d) Choosing a blue marble?

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

e) Choosing a black marble?

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

f) Choosing a yellow and a red marble?

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

g) Choosing a green marble?

   i)   Likely
   ii) Unlikely
   iii) Certain
   iv) Impossible

Activity Four

4) Ask your class mates what their favorite color is from the colors listed on the chart below. Make a tally mark (|) each time a color is chosen under the number section. When finished, add all the tally marks up and write in the total for each color.

Favorite Colors

Color	Number	Total
Green		
Red		
Blue		
Pink		
Orange		
Black		

Answer the questions using the information from the frequency table above.

a) **How many people did you survey?**

b) **What color was chosen the most?**
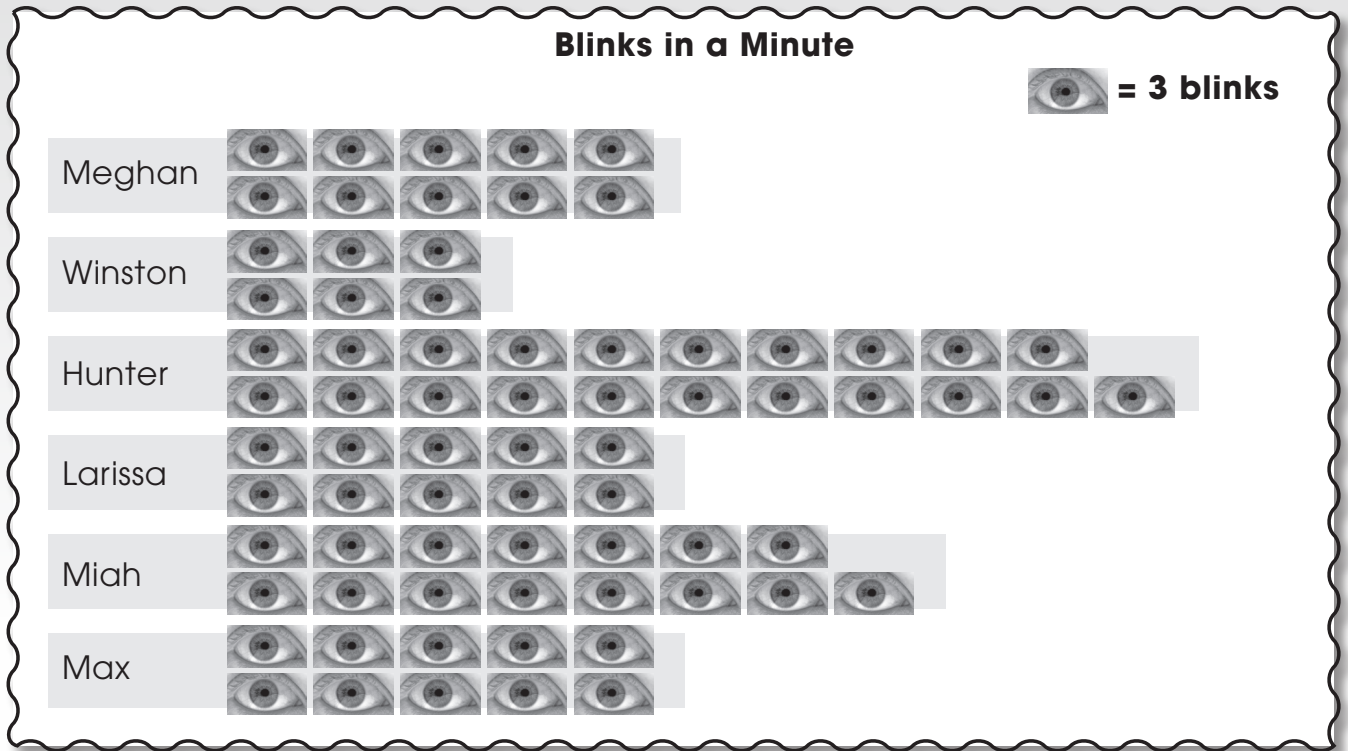
c) **What color was chosen the least?**

d) **How many of your classmates chose your favorite color?**

e) **What other questions can you ask about the information on this chart?**

_____

_____

_____

Activity Five

5)   **Answer the questions below using the information in the pictograph.**

Blinks in a Minute

👁 = 3 blinks

Meghan

Winston

Hunter

Larissa

Miah

Max

a)   **What data does the pictograph show?** _____

b)   **What is another way you could display the data?** _____

c)   **Why was the scale of one eye equals three blinks used?** _____

d)   **How many times did the students blink in all?** _____

e)   **Who blinked the most?** _____

f)   **Who blinked the least?** _____

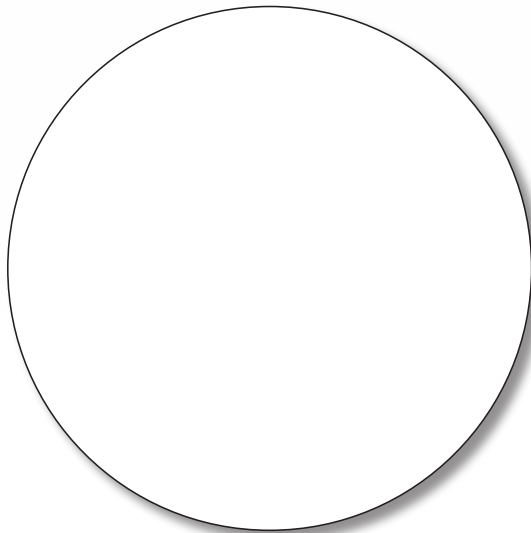**g)**   **How likely is the probability that Hunter would blink
the most after two minutes?** _____

Activity Six

6) Clark's class voted on which animals they liked best at the zoo.

Animal	Total Votes
Gorilla	12
Snake	6
Tiger	14
Bear	18
Wolf	8

Create and label the circle graph using the information from the tally chart above.

Use the data above to answer the following questions.

a) **Which animal was voted for the least?**

b) **Which animal was voted for the most?**

c) **How many students voted altogether?**

d) **What percentage of students voted for the Snake and Wolf?**

e) **What percentage of students voted for the Gorilla and Tiger?**

6.

a) Snake

b) Bear

c) 58

d) 24%

e) 45%

6A

5.

a) Answers will vary.

b) Answers will vary.

c) Answers will vary.

d) 216

e) Hunter

f) Winston

g) Likely

5A

4.

Answers will vary.

4A

3.

a) i) Likely

b) ii) Unlikely

c) ii) Unlikely

d) i) Likely

e) ii) Unlikely

f) ii) Unlikely

g) iv) Impossible

3A

2.

a) Spider Plant

b) The Spider Plant grows 26 cm (10 inches) more than the Orchid.

c) 3 days.

d) African Violet. Because it grows the least amount overnight.

e) Answers will vary.

2A

1.

Answers will vary.

1A