

# Welcome to The Nature Park Line Master 1

(Assessment Master)

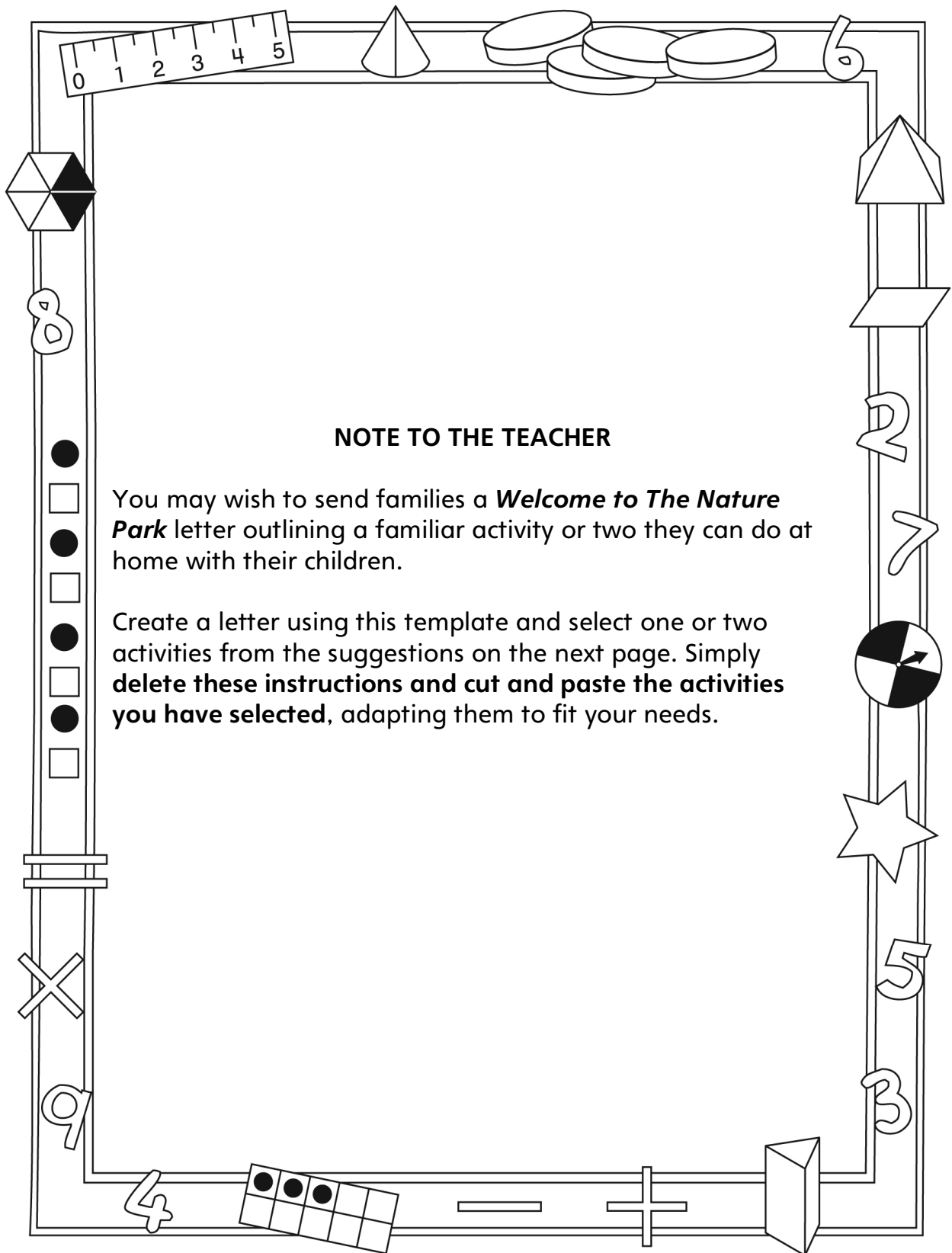
Name: \_\_\_\_\_

<b>Interpret Charts, Tables, Pictographs, and Bar Graphs</b>	<b>Not observed</b>	<b>Sometimes</b>	<b>Consistently</b>
Reads and interprets information from data displays			
Explains and justifies whether a display used is appropriate for the data collected			
<b>Draw Conclusions from Data Displays</b>			
Poses questions about data collected and displayed			
Answers questions about data collected and displayed			
Makes simple inferences about a population based on sample data collected			
Draws conclusions from charts, tables, and graphs			

**Strengths:**

**Next Steps:**

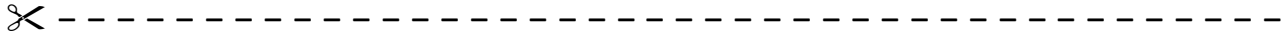
# Connecting Home and School Line Master 2-1



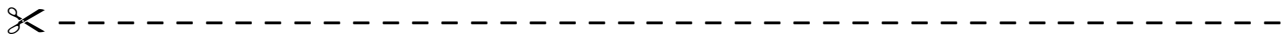
# Connecting Home and School Line Master 2–2

Dear Family:

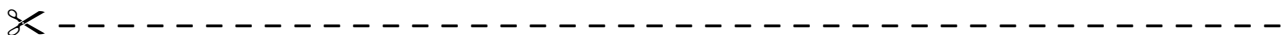
We have been working on **Welcome to The Nature Park**, which engages children in conversations, investigations, and activities that help to develop their understanding of the big math idea that “Collecting and displaying data can help us predict and interpret situations.” Particular focus is placed on interpreting charts, tables, pictographs, and bar graphs, and drawing conclusions based on data displays. Try this activity at home with your child.



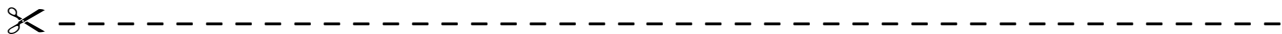
**Reading the Story:** As you read the story, enjoy talking about the various ways information is displayed and what you learn from the graphs. After you read, you might ask some questions about objects in your home that could be shown on a graph (e.g., stuffed toys and toys with wheels; different genres of books).



**Say Something!** With your child, decide on 4 categories for a graph (e.g., 4 types of sports, 4 ice cream flavours) and assign a different symbol to each category. Roll a number cube to determine how many are in each category. Use a copy of the Math Mat (see the inside back cover of the book) to create your graph. Then, take turns saying something about the graph (e.g., “More people like soccer than swimming,” “9 people voted in this survey”) until you run out of things to say. The last person to be able to come up with something to say about the graph is the winner.



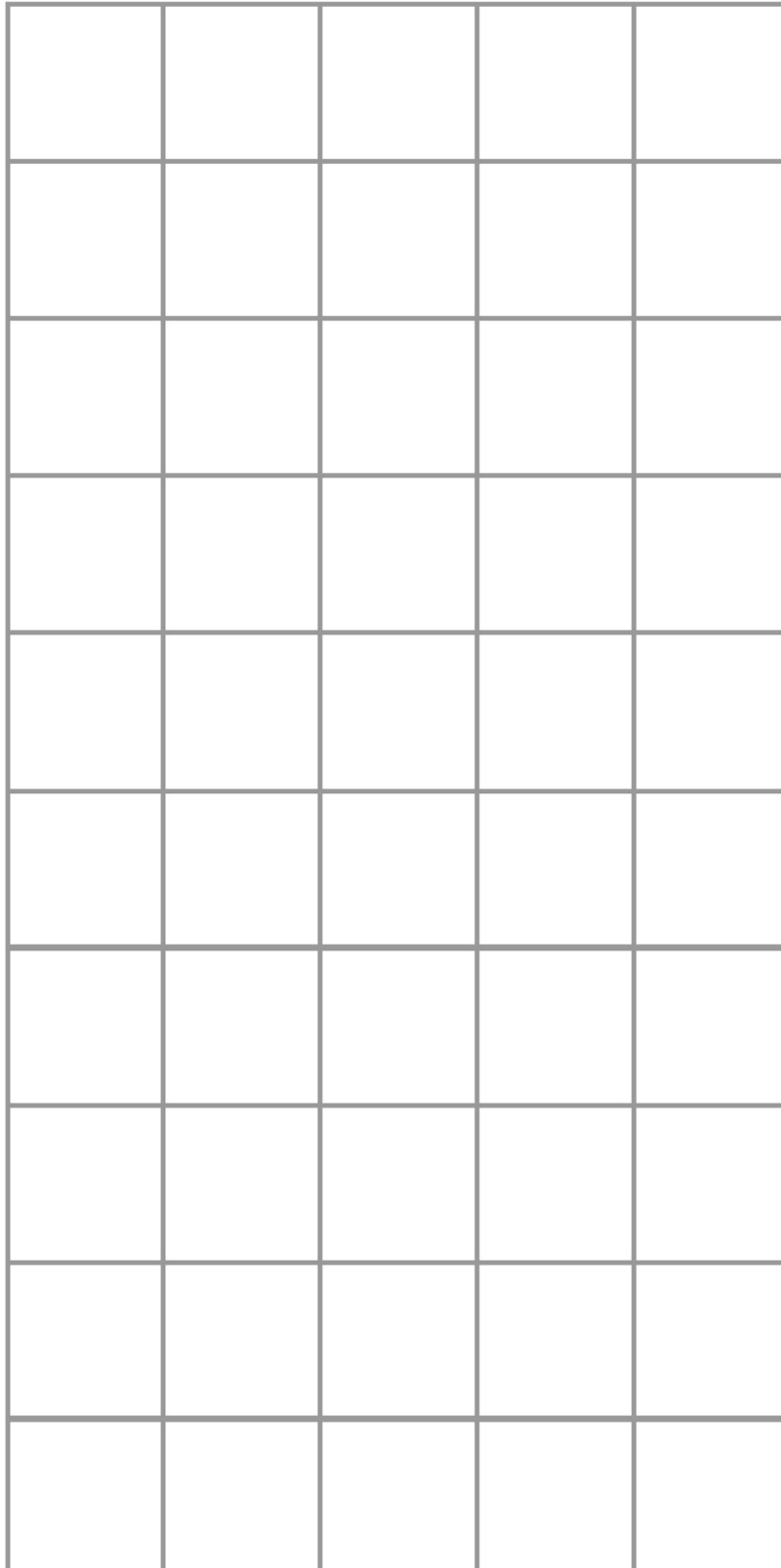
**Newsworthy:** Look through newspapers and magazines to find simple graphs on an appropriate topic for your child. Read and discuss the content of these graphs with your child, drawing conclusions and making inferences based on the graphs.



Sincerely,

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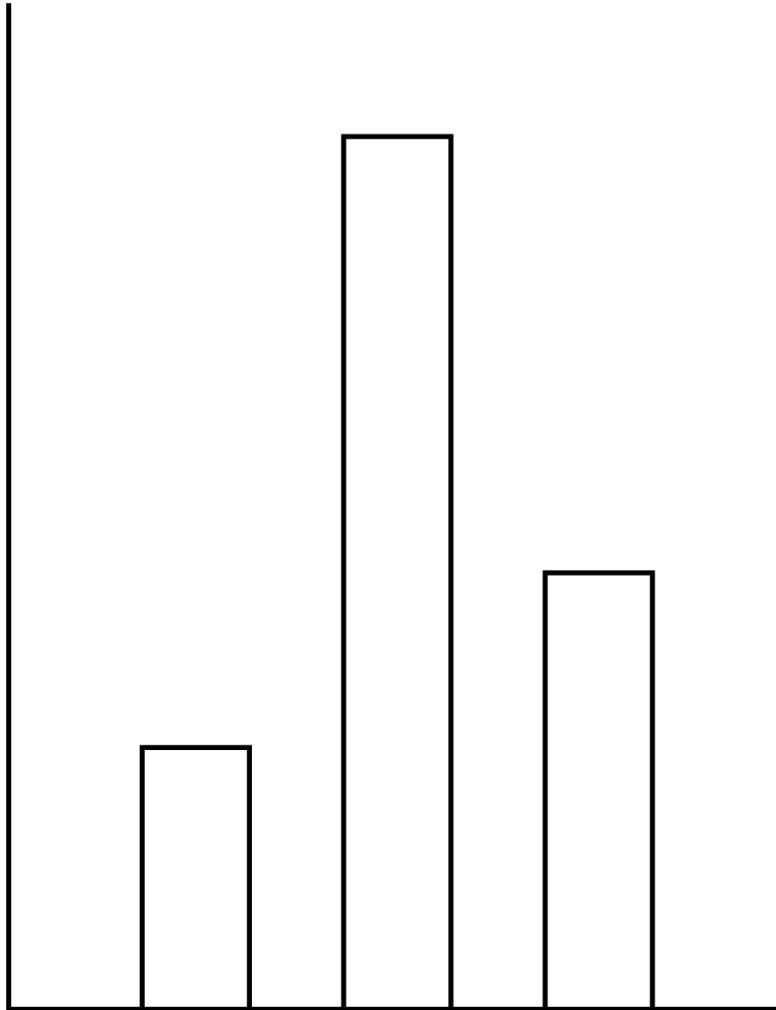
# Welcome to *The Nature Park* Line Master 3 Math Mat



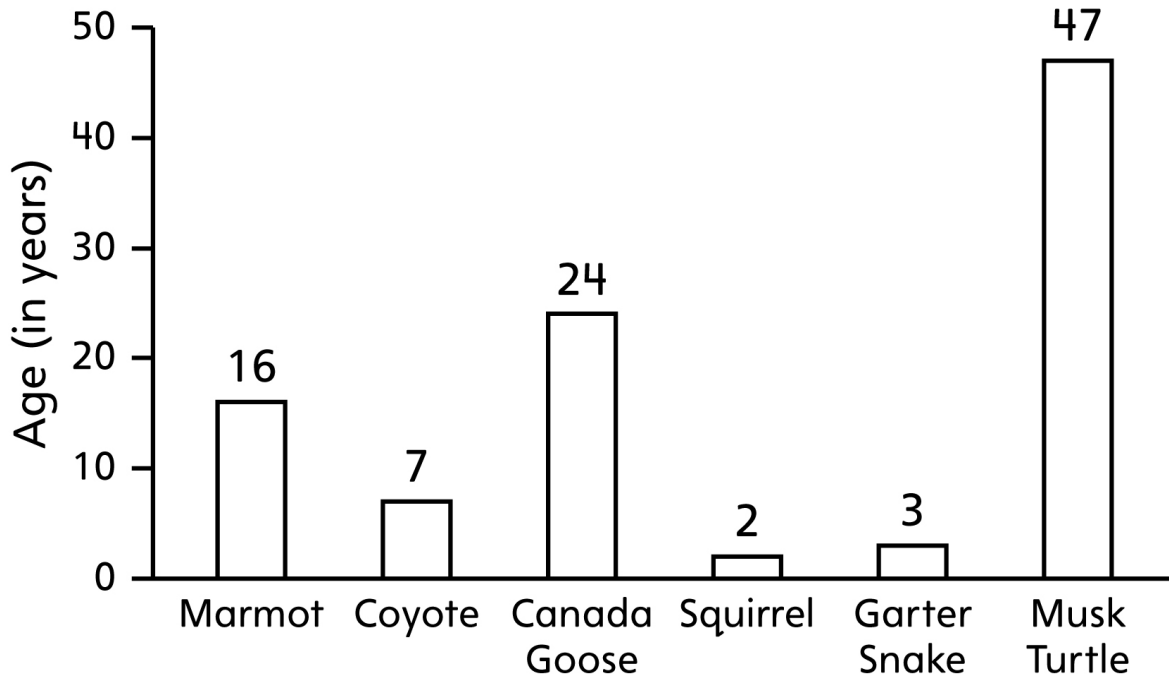
# The Big Graphing Oops!

## Line Master 4

Name: \_\_\_\_\_



## Animal Lifespan



## Animal Lifespan

Marmot	Coyote	Canada Goose	Squirrel	Garter Snake	Musk Turtle






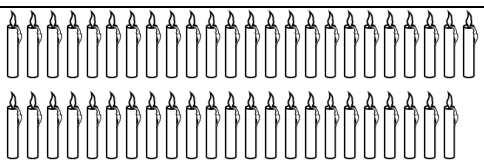
# The Best Way

## Line Master 5-2

### Animal Lifespan

Animal	Lifespan in Years
Marmot	16
Coyote	7
Canada Goose	24
Squirrel	2
Garter Snake	3
Musk Turtle	47

### Animal Lifespan

Animal	Lifespan in Years
Marmot	
Coyote	
Canada Goose	
Squirrel	
Garter Snake	
Musk Turtle	

# The Best Way

## Line Master 5–3

Name: \_\_\_\_\_

How are the graphs, tables, and charts alike?

How are they different?

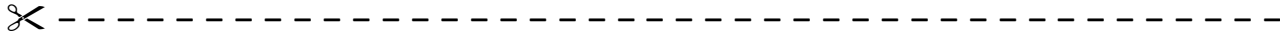
Which one is the easiest to read? Why?

Which ones are harder to make sense of? Explain your thinking.

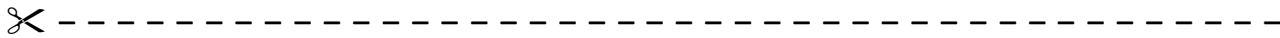


# Digging into Data

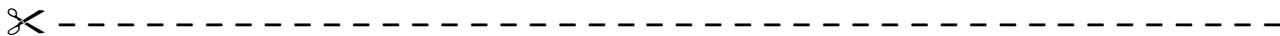
## Line Master 6-1

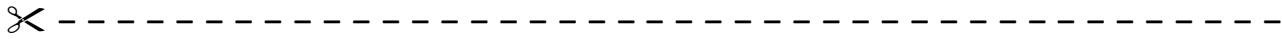


Favourite Fruits for School Snack		
Grapes	Orange	Apple

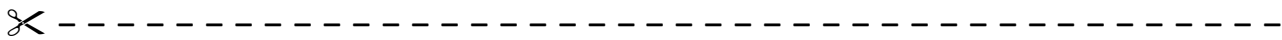
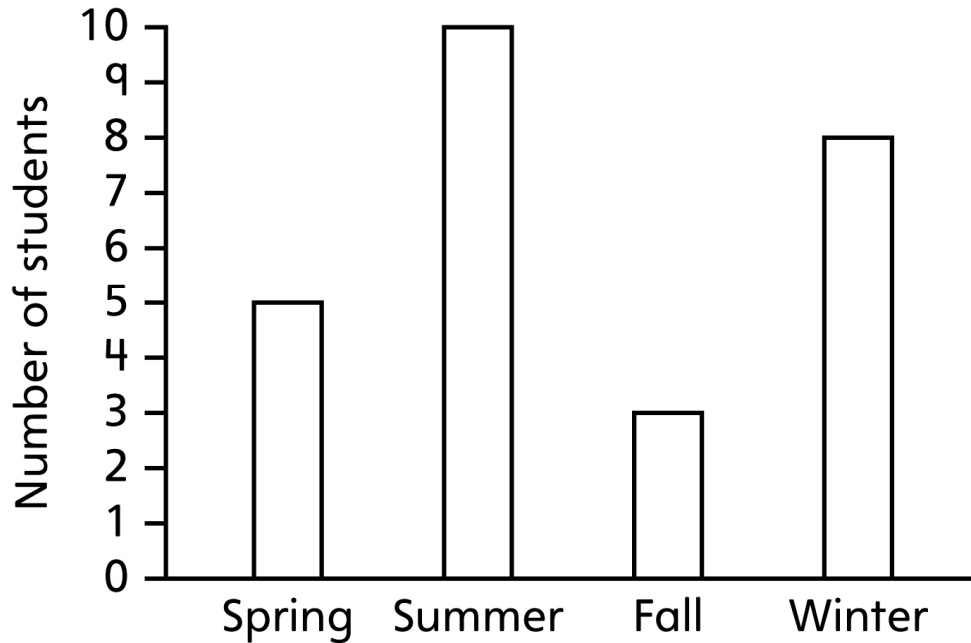


What do we want to do at recess?	
Skip rope	
Play soccer	
Play in playground	

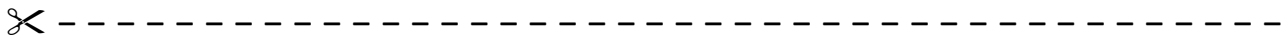




### Favourite Season



Where do we want to go on a field trip?	
Museum	/
Aquarium	/
Animal Shelter	/



# Digging into Data

## Line Master 6–3

✂ -----

What type of information is in this data display?

✂ -----

Which choice was most popular? \_\_\_\_\_ How did you decide?

✂ -----

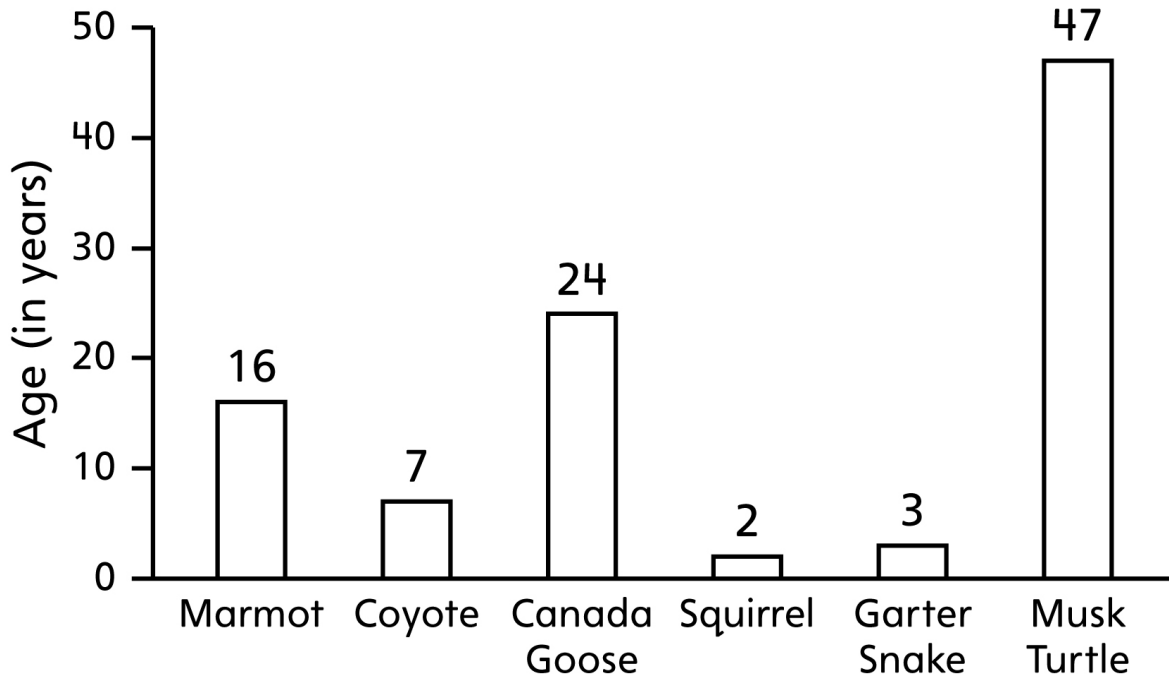
What is another question you can ask about the information in this data display? What is the answer to your question? How did you decide?

✂ -----

How can you use the information from this data display?

✂ -----

## Animal Lifespan

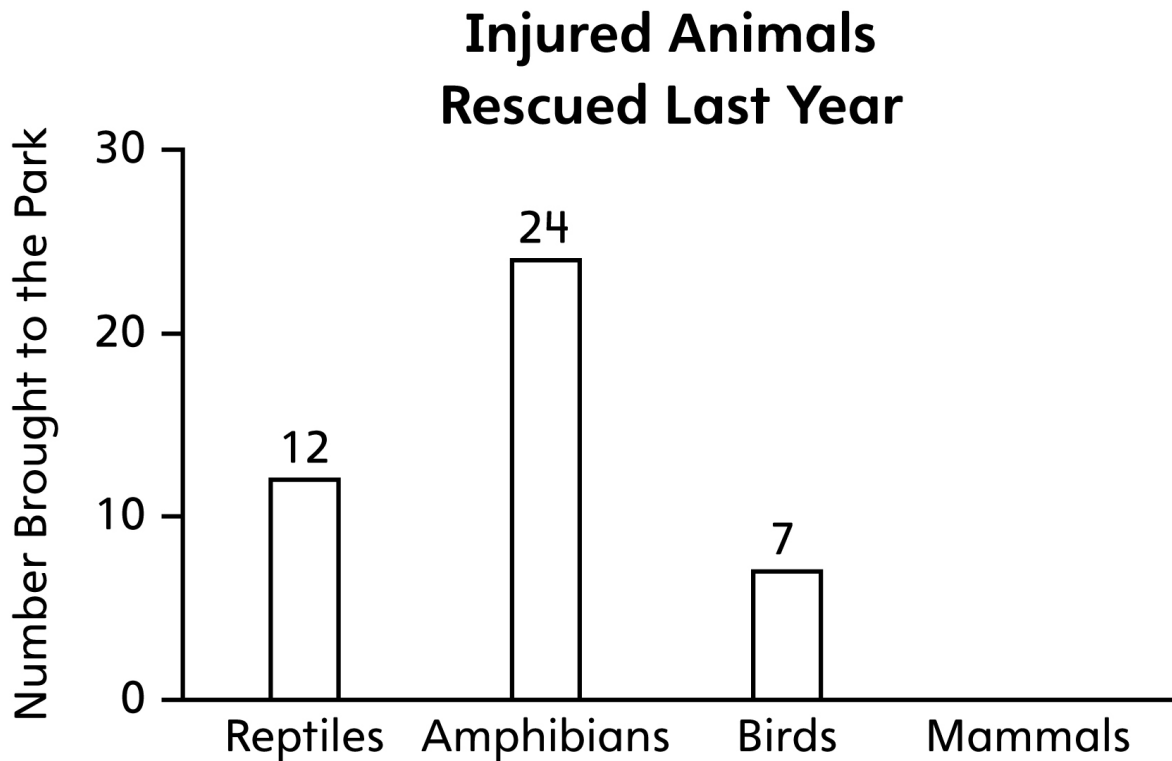


1. How much longer does a marmot live than a coyote?
2. How many years older are you than an old garter snake?
3. Which animal lives about 3 times longer than a squirrel?
4. What question can you ask using this bar graph?

## Animal Diets

Animal	Food Type	Food Amount/Day	Number of Meals/Day
Coyote	Meat and fish	1000 grams	1
Turtle	Grubs and worms	250 grams	1
Osprey	Fish only	250 grams	2
Squirrel	Seeds and nuts	100 grams	1
Raccoon	Meat, fish, fruits, and vegetables	500 grams	2

1. How much food does a raccoon eat in 1 day? 3 days?
2. How much food is needed to feed an osprey for 1 week?
3. You have 750 grams of grubs and worms. How many turtles can you feed in 1 day?
4. Which eats more: 10 squirrels or 2 raccoons?
5. Make up a problem of your own using this chart.



1. 61 injured animals were brought to the park last year. How many were mammals? How did you figure it out?
2. Suppose 71 injured animals were brought to the park and the number of reptiles, amphibians, and birds did not change. How many mammals would there be?
3. Suppose 51 injured animals were brought to the park and the number of reptiles, amphibians, and birds did not change. How many mammals would there be?
4. Suppose 100 injured animals were brought to the park and the number of reptiles, amphibians, and birds did not change. How many mammals would there be?
5. Suppose there were twice as many injured mammals as birds brought to the park. How many injured mammals would there be?