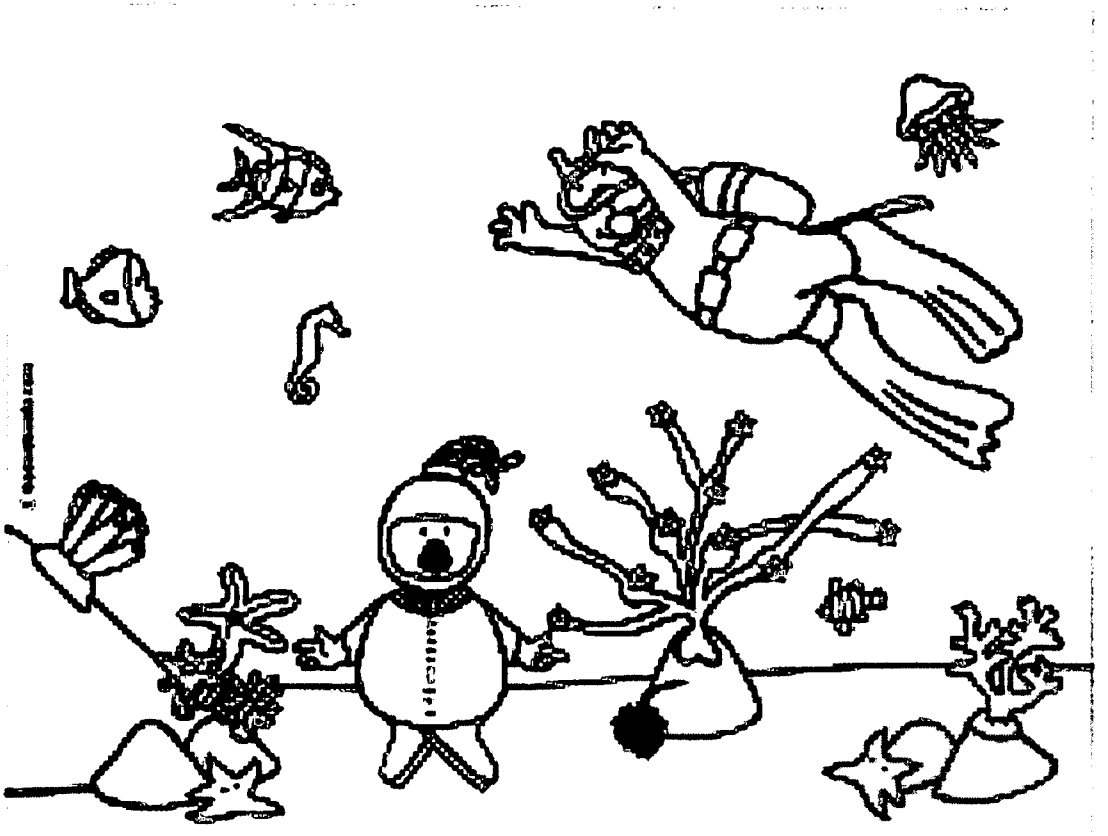
# Come and graph with me under the sea!



Grade 3: Math DOK Task

CCS: 3.MD.3

DOK 1

Name:

Date:

____ The student accurately uses the information in the pictograph to answer questions.
____ The student accurately uses the key.

# Fishing Trip Pictograph

**Michael, Emily, Joseph, Jennifer, and Kevin went on a fishing trip. Look at the pictograph below to see how many fish each person caught. Answer the questions below.**

**Number of Fish Caught**

| | |
|---|---|
| Michael | |
| Emily | |
| Joseph | |
| Jennifer | |
| Kevin | |

= 6 fish

1. **How many fish did Michael catch?** 1. _____
2. **How many fish did Emily catch?** 2. _____
3. **How many fish did Kevin catch?** 3. _____
4. **How many more fish did Emily catch than Joseph?** 4. _____
5. **How many fish did the girls catch?** 5. _____
6. **How many fish did the boys catch?** 6. _____
7. **How many more fish did the girls catch than the boys?** 7. _____
8. **How many fish did Joseph and Kevin catch?** 8. _____
9. **Find the sum of the fish caught by all 5 people.** 9. _____
10. **Who caught fewer fish, Jennifer or Emily?** 10. _____
11. **Did Jennifer catch and odd or even number of fish?** 11. _____

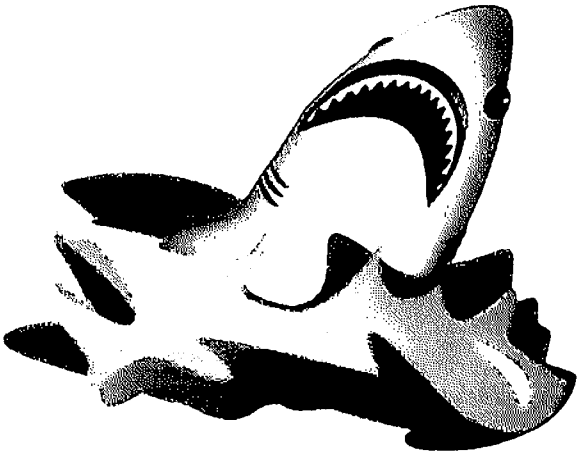
Name _____

## Completing and Interpreting a Bar Graph

___ Student accurately included all components of a bar graph.
___ Bars are neatly drawn and are not touching.
____ Student answered all questions on page 2 accurately and included a number sentence when needed.

**Directions:** Read the information in the data table below. Create a bar graph showing the number of sharks seen on the third grades trip to the aquarium. Remember to include ALL components of a bar graph.

| Type of Shark | # of Sharks at the New York Aquarium |
|---|---|
| Great White Shark | 9 |
| Hammerhead Shark | 24 |
| Bull Shark | 18 |
| Mako Shark | 21 |
| Nurse Shark | 27 |

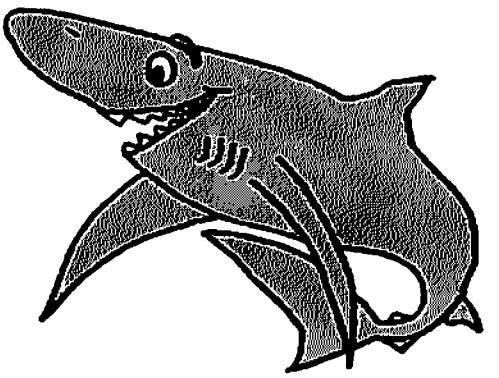


### Sharks Seen on A Trip to the Aquarium

mathsclass.net

Name _____

Completing and Interpreting a Bar Graph

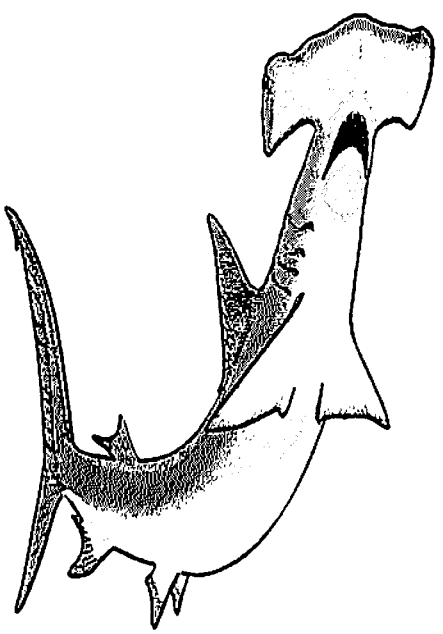


**Directions:** Use the information from the bar graph to answer the following questions. Show the number sentence you used to solve each problem.

1. How many Hammerhead sharks and Bull sharks are at the New York Aquarium altogether?

2. How many more Nurse sharks are there than Great White Sharks?

3. According to the bar graph, which shark appears the most at the New York Aquarium?



4. How many Bull sharks, Nurse sharks, and Hammerhead sharks are at the New York Aquarium altogether?

Name_____

Pictographs

___ Student accurately used the scale to record the total number of each animal.
___ Student included a title and labels to complete the pictograph.
___ Student created a logical and coherent opinion to support their claim about animals in zoos.

**Directions**: Use the information you found on page 1 to create a pictograph.

Remember:

- Remember your scale: **1 fish picture = 3 sharks**
- Include all parts of a graph: **title, labels, key**
- Make your pictograph neat and colorful
- **After finishing the pictograph, answer the following question:**

Aquariums are popular places for families to visit. Do you think sea animals should be kept in aquariums? Why or Why not?

_____

_____

_____

_____

_____

_____

_____

| | |
|---|---|
| | |
| | |
| | |
| | |
| | |

Key

= 3 animals

Name _____

Create your own Sea Animal Bar Graph

**Your Task:**

- Choose 1 topic from the Animal Topics list below.
- Choose 4 animals that you would like to learn more about.
- Use the Internet to research that animal and the specific topic you chose from the list.
- Record your findings on the data table.
- Create a bar graph to display the results of your research.
- Write an essay explaining your findings.

___ Student used the internet appropriately and independently to research a topic.
___ Student accurately filled in a data table.
___ Student included all components of a bar graph.
____ Student created evenly spaced out, neat, and accurately placed bars on their bar graph.
____ Student explained their findings in a cohesive and coherent essay.

## Animal Topics

(Choose 1)

**Life Expectancy**
(How long an animal can live)

**Maximum Weight**
(How heavy the animal gets)

**Population in the Wild**
(How many are in the wild)

**Daily Food Intake**
(Amount of food eaten each day)

## Sea Animals

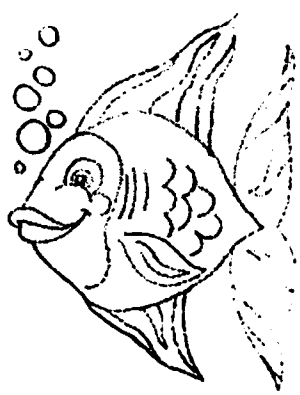
(Choose 4)

Dolphin
Humpback Whale
Octopus
Killer Whale
King Crab
Lobster
Manatee
Manta Ray
Seal
Sea Urchin
Sharks
Starfish
Sting Ray

# Recording Findings on a Data Table

**Directions**: Now that you chose your animals to research, and your research topic, use the Internet to conduct your research. Fill in your information on the data table. Remember to fill in the topic you chose at the top of your table.

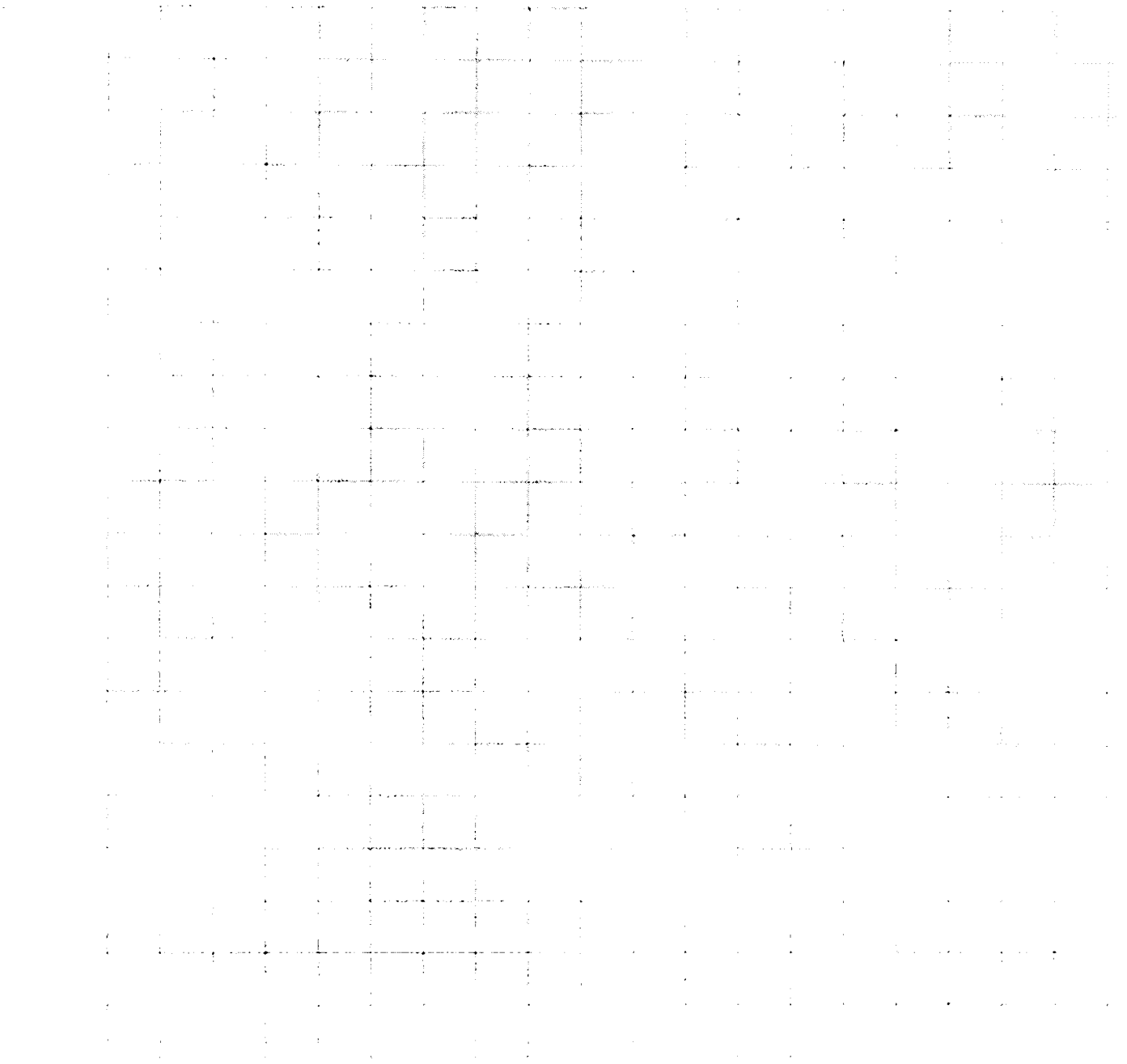
| Animal Chosen | Topic: |
|---|---|
| | |
| | |
| | |
| | |
| | |

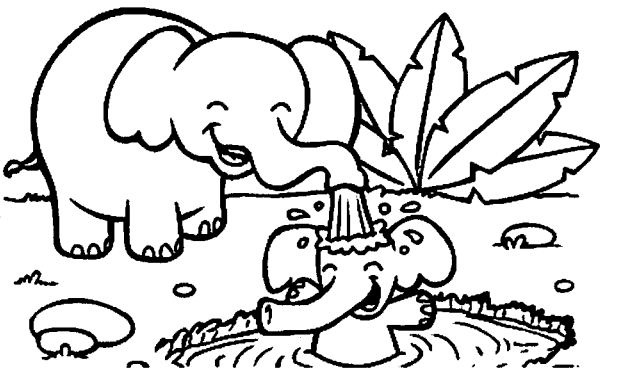


Remember to use Safe-Find when conducting your animal research online!
http://www.safe-find.com/

# Creating Your Bar Graph

Use the information you found and recorded in your data table to create a bar graph. Remember all components of a bar graph; **Title, Labels, Scale, Bars**. Work neatly to create a colorful bar graph. Remember bars must be the same size, they don't touch and they must be evenly spaced apart.



# Explain Your Findings

**Directions**: Write 3 descriptive paragraphs about your research and the new information you learned. Be sure to use descriptive language, check for correct capitalization and punctuation, and use a bold beginning to start your writing.