

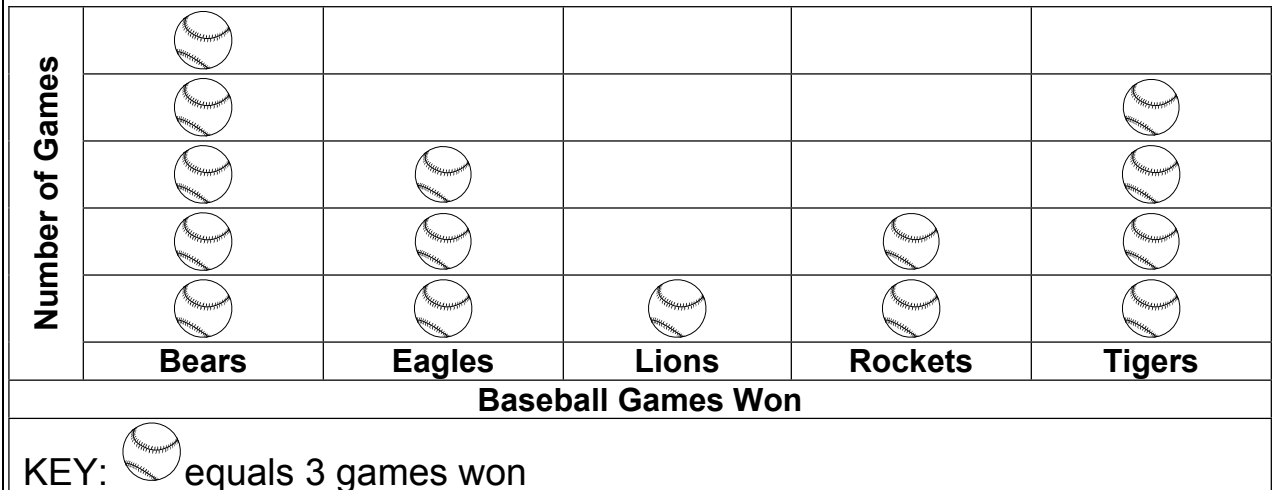
# lesson twenty-eight - student resource sheet

**Lesson Objective:** Use picture graphs and bar graphs to solve word problems.

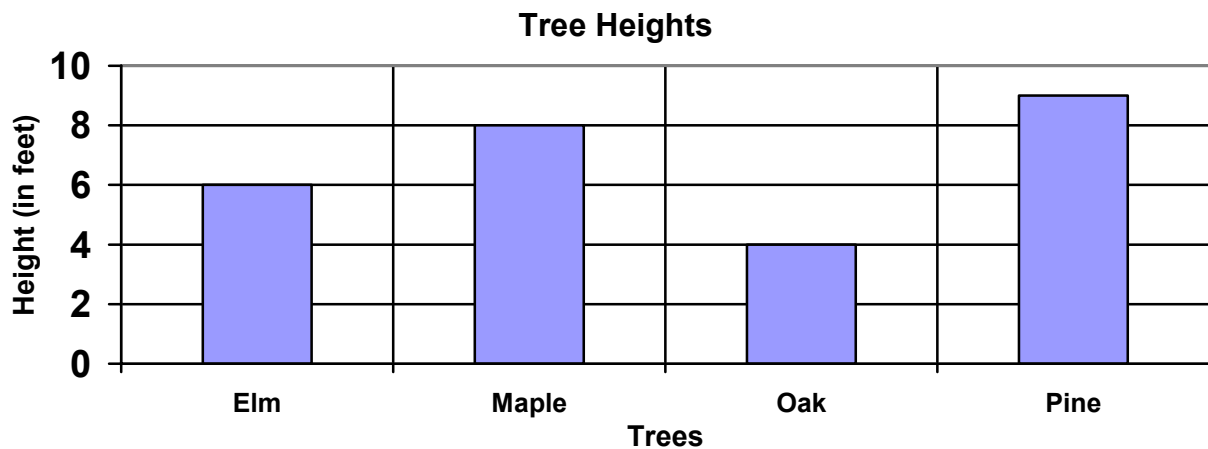
## Vocabulary Box

**data** — Facts or information. Examples: Your grades on some math tests; the number of games your baseball team won and lost.

**pictograph** — A graph that uses pictures to show data.  
Example:



**bar graph** — A graph that uses bars to show data.  
Example:

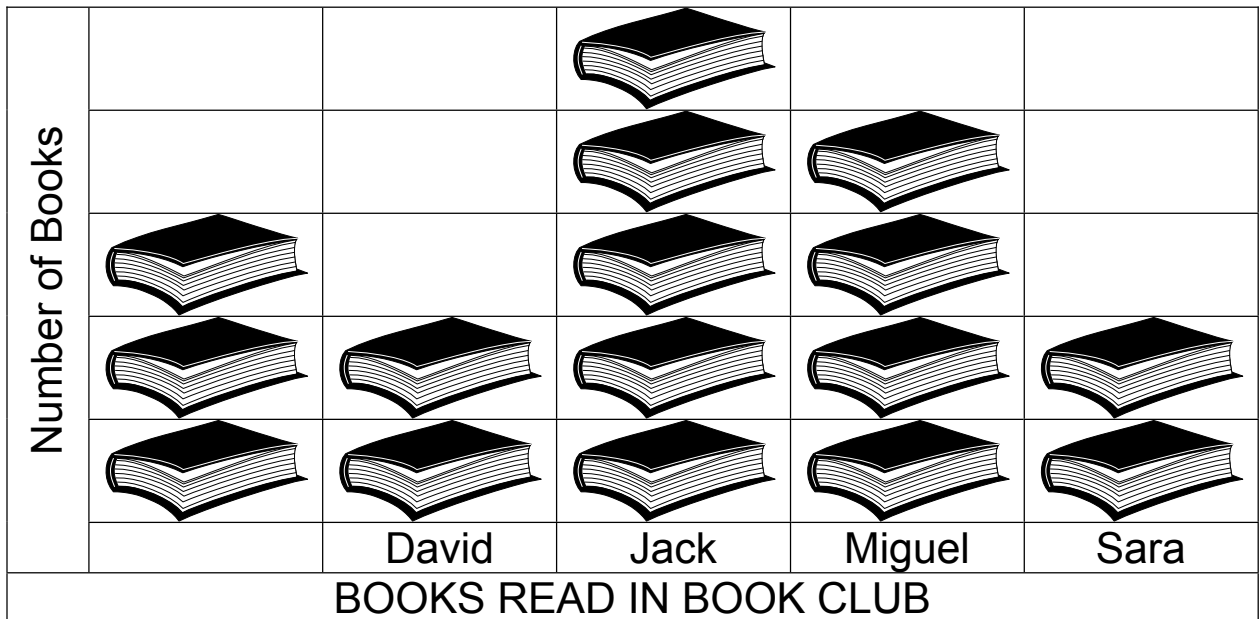




## Guided Practice

Directions: Complete these practice problems with your partner. Your teacher will review the answers.

I. Use this pictograph to solve each problem.



equals 2 books read

1. How many books did Angela read? \_\_\_\_\_

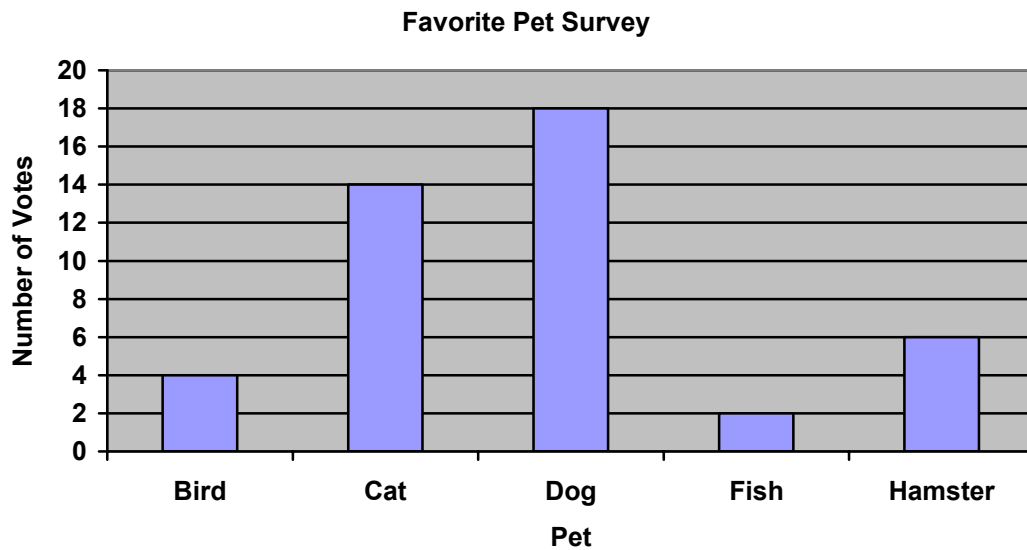
2. Who read eight books? \_\_\_\_\_

3. Which two people read the same number of books?

\_\_\_\_\_

4. Who read the most books? \_\_\_\_\_

II. Use this bar graph to solve each problem.



1. How many votes did birds get? \_\_\_\_\_
2. Which pet got 14 votes? \_\_\_\_\_
3. Which pet got the largest number of votes? \_\_\_\_\_
4. Which pet got the smallest number of votes? \_\_\_\_\_
5. How many more votes did hamsters get than fish? \_\_\_\_\_



## Summary/Closure

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### A. Vocabulary Words

Directions: Fill in the blanks.

1. All graphs show \_\_\_\_\_, or information.
2. A \_\_\_\_\_ uses bars to show data.
3. The \_\_\_\_\_ tells what each picture means on a pictograph.
4. A \_\_\_\_\_ uses pictures to show data.

### B. Summarize What We Learned Today

1. Look at the pictograph in Part I in the Guided Practice section. Write a question about the data on that graph. Then use the graph to answer the question.

Problem: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_?

Answer:

\_\_\_\_\_.

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2. Look at the bar graph in Part II in the Guided Practice section. Write a question about the data on that graph. Then use the graph to answer the question.

Problem: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_?

Answer:

\_\_\_\_\_.



# lesson twenty-nine - student resource sheet

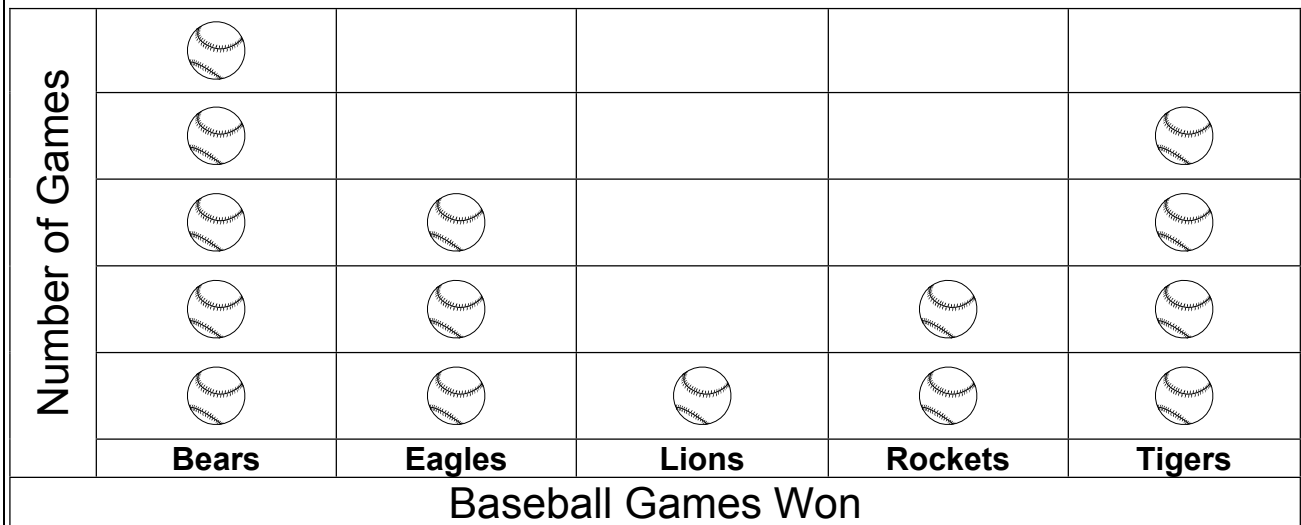
**Lesson Objective:** Use picture graphs and bar graphs to solve word problems.

## Vocabulary Box

**data** — Facts or information. Examples: Your grades on some math tests; the number of games your baseball team won and lost.

**pictograph** — A graph that uses pictures to show data.

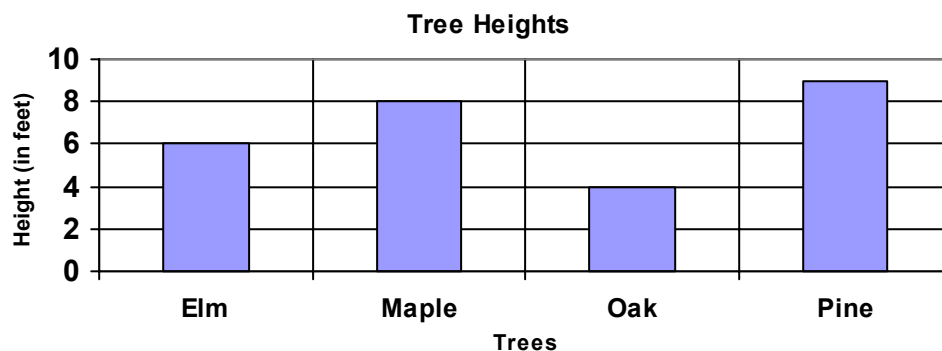
Example:



KEY:  equals 3 games won

**bar graph** — A graph that uses bars to show data.

Example:

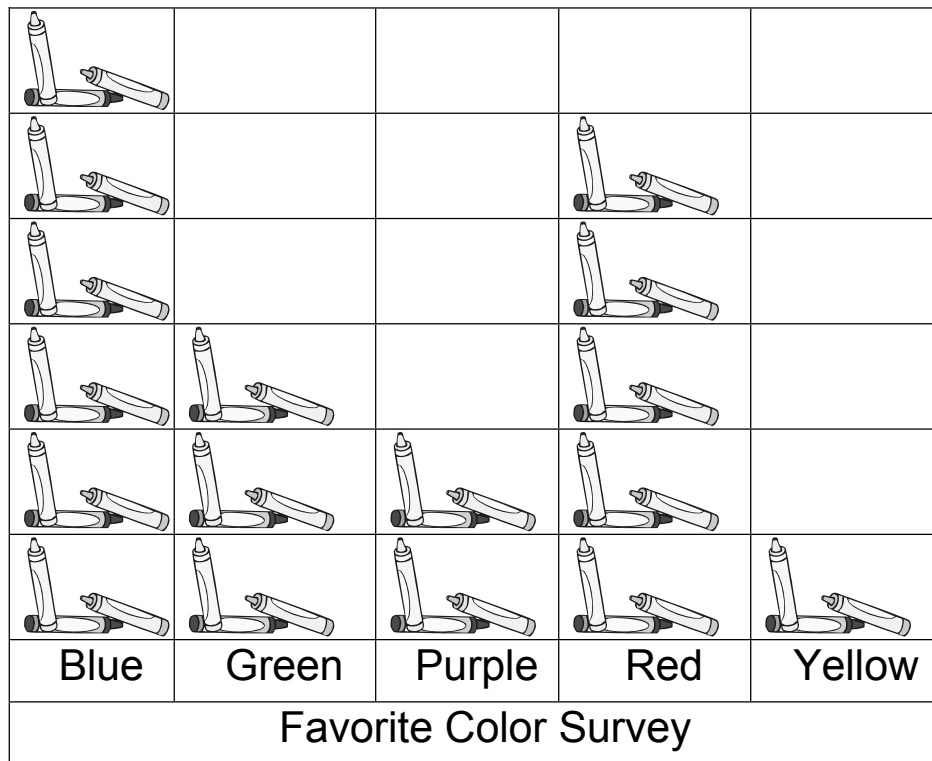


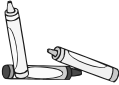


## Independent Practice

Directions: Complete these practice problems on your own. Your teacher will review the answers.

I. Use this pictograph to solve each problem.



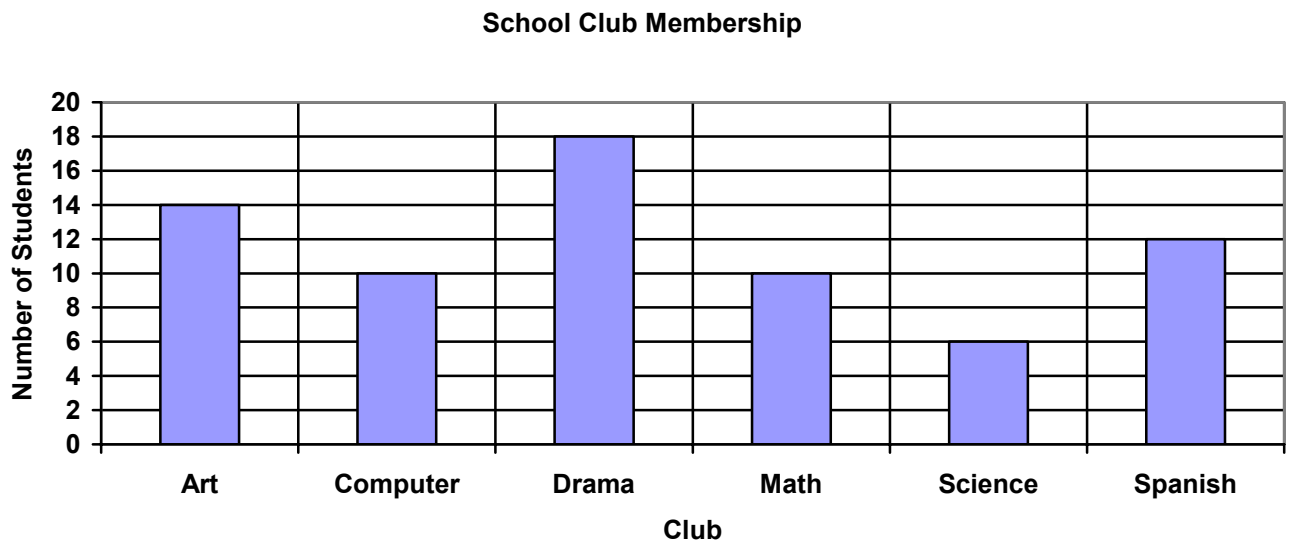
Each  equals 4 votes.

1. How many votes did purple get? \_\_\_\_\_
2. Which color got 12 votes? \_\_\_\_\_
3. Which color got the most votes? \_\_\_\_\_
4. Which color got the fewest votes? \_\_\_\_\_
5. How many votes did yellow and red get in all? \_\_\_\_\_



## lesson twenty-nine - student resource sheet

II. Use this bar graph to solve each problem.








1. How many students are in the science club? \_\_\_\_\_
2. Which club has 14 members? \_\_\_\_\_
3. Which club has the most members? \_\_\_\_\_
4. Which club has the fewest members? \_\_\_\_\_
5. Which two clubs have the same number of members? \_\_\_\_\_

# BONUS?

Directions: The pictograph shows the data in the table. Draw pictures to finish the pictograph. Use the key.

Favorite Dessert Survey	
Dessert	Number of Votes
Cake	12
Cupcake	8
Ice cream	16
Pie	6
Popsicle	4

				
				
				
Cake	Cupcake	Ice cream	Pie	Popsicle
Favorite Dessert Survey				

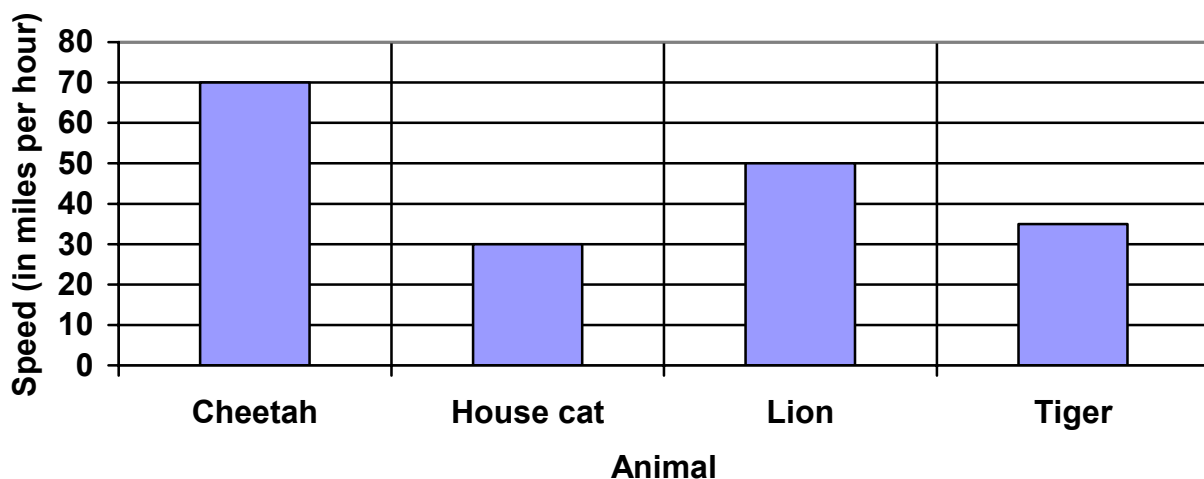
Key: Each  equals 2 votes.

# lesson twenty-nine - student resource sheet

## Problem Solving

Jenny is doing a report for school. The report is about cats. She finds this bar graph in a library book. How much faster can a cheetah run than a lion?

Animal Speeds



1. First you need to find how fast a cheetah can run. Use the bar graph.

Cheetah's speed: \_\_\_\_\_ miles per hour

2. Then you need to find how fast a lion can run. Use the bar graph.

Lion's speed: \_\_\_\_\_ miles per hour

3. Then you need to find the difference in their speeds. (*Use logical thinking.*)

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

So, a cheetah can run \_\_\_\_\_ miles per hour faster than a lion.



1. What is data? \_\_\_\_\_
2. What kind of graph uses pictures to show data?  
\_\_\_\_\_
3. What kind of graph uses bars to show data?  
\_\_\_\_\_
4. Look at the bar graph in the Problem Solving section. How fast can a house cat run? \_\_\_\_\_
5. Look at the pictograph in the Bonus section. How many votes did cake get? \_\_\_\_\_

# lesson thirty - student resource sheet

**Lesson Objective:** Choose and use an appropriate problem-solving strategy.



## **Guided Practice on Problem Solving Strategies**

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Draw a picture, make a model, guess and test, or make a list to solve these math problems.

I. Directions: Work with your partner to solve the following problems.

1. Kendra has two stacks of books. There are seven books in each stack.

How many books are there altogether? \_\_\_\_\_

2. Three of me equals one whole. I am one of three parts. What am I?

\_\_\_\_\_

## Problem Solving

- I. Directions: Solve the following word problems by selecting an appropriate problem-solving strategy.

1. Josh had 75 cents. He spent 50 cents on an ice cream cone.

How many cents did Josh have left? \_\_\_\_\_

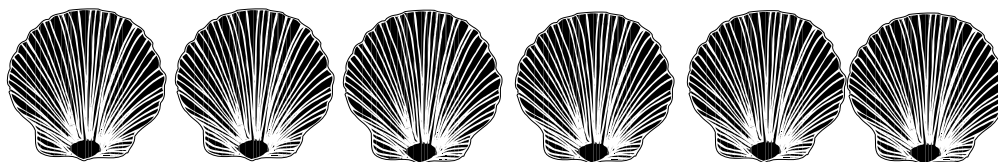


Guess: Do you think you need to regroup? \_\_\_\_\_

Test: Solve the problem. Show your work.

2. Mia has a shell collection. She has 29 clam shells and 19 mussel shells.

How many shells does Mia have altogether? \_\_\_\_\_



Guess: Do you think you need to regroup? \_\_\_\_\_

Test: Solve the problem. Show your work.

## lesson thirty - student resource sheet

II. Directions: Write the number that solves the riddle. Show your problem-solving strategy.

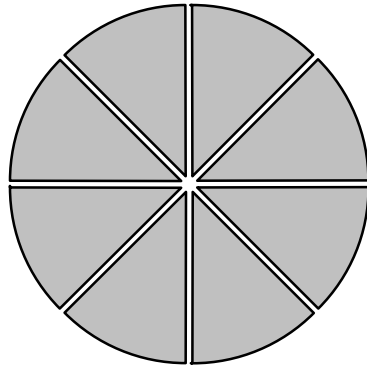
1. I am a number. I am the product of 3 times 3. What number am I?

\_\_\_\_\_

2. I am a number. If you make 5 groups of 2, you will find me. What number am I? \_\_\_\_\_

3. I am a factor. If you multiply me by 4, the product is 8. What factor am I? \_\_\_\_\_

III. Directions: Look at the picture of the pizza. Then circle the correct answer.



1. How many pieces of pizza equal  $\frac{1}{4}$  of the pizza?

2

4

6

8

2. How many pieces of pizza equal  $\frac{1}{2}$  of the pizza?

2

4

6

8