

North Penn School District
Elementary Math Parent Letter

Grade 1


Unit 5 -- Chapter 10: Represent Data












Examples from each lesson

Lesson 10.1

Read Picture Graphs

Represent and interpret data.

A **picture graph** uses pictures to show how many.
Count the  in each row.

Snack We Like						
 apple						
 pretzel						

Each  stands for 1 child who chose that snack.

There are 5 children who chose .

There are 3 children who chose .

More information on this strategy is available on Animated Math Model #43.

Lesson 10.2


Make Picture Graphs



Represent and interpret data.

Are there more black cars or white cars?
Complete the picture graph to find out.

Cross out each car as you count.

Draw a ○ in the graph to show each car.



Black and White Cars									
 black	<input type="checkbox"/>								
 white									

Each ○ stands for 1 car.


More information on this strategy is available on Animated Math Model #43.

Lesson 10.3

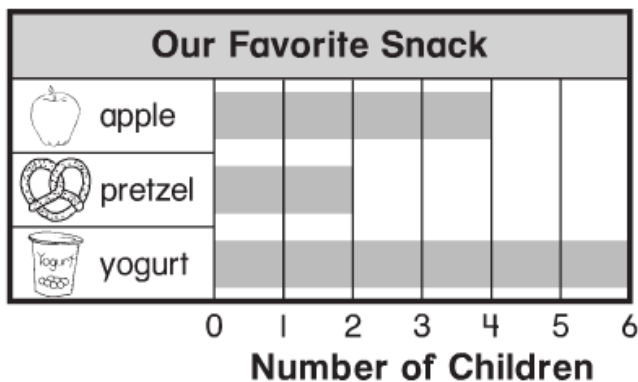
Read Bar Graphs




Represent and interpret data.

A **bar graph** uses a bar to show how many.

This graph shows 6 children chose  .

The longest bar shows the snack most children chose.



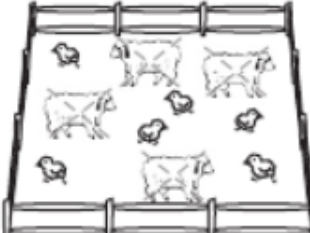
Our Favorite Snack									
 apple									
 pretzel									
 yogurt									

0 1 2 3 4 5 6
Number of Children

Lesson 10.4

Make Bar Graphs



Represent and interpret data.



Cross out each animal as you show it in the graph.

Kinds of Animals

Animals at the Farm

 sheep							
 chicks							

0 1 2 3 4 5 6



Number of Animals

Lesson 10.5

Read Tally Charts

Represent and interpret data.

Some children named their favorite collections.
 Each | stands for 1 child.
 Each |||| stands for 5 children.

Our Favorite Thing to Collect		Total
 shells	 1 2 3 4	4
 stamps	 5 6 7	7

More children like to collect stamps.

More information on this strategy is available on Animated Math Model #44.

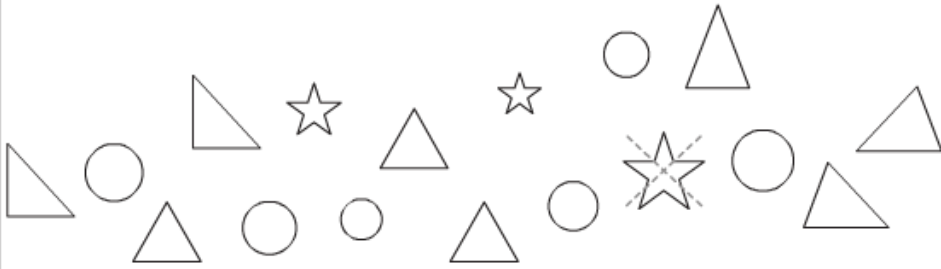
Lesson 10.6




Make Tally Charts

Represent and interpret data.

The picture shows shapes.
Make a tally chart to show
how many of each shape.

Cross out each
shape as you
count.



Shapes in the Picture		Total
 circles	 	<u>6</u>
 stars		<u>3</u>
 triangles	 	<u>8</u>

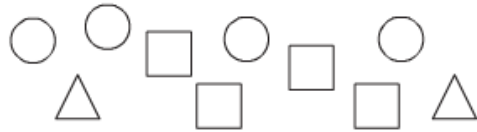
More information on this strategy is available on Animated Math Model #45.

Lesson 10.7

Represent and interpret data.

Problem Solving • Represent Data

Ava has these beads to make a bracelet.
How can you find how many beads she has?



Unlock the Problem

What do I need to find? how many <u>beads</u> Ava has	What information do I need to use? the number of <u>○</u> , <u>△</u> and <u>□</u> in the picture								
Show how to solve the problem.									
	<table border="1"><thead><tr><th colspan="2">Beads Ava Has</th></tr></thead><tbody><tr><td>circle ○</td><td><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td></tr><tr><td>square □</td><td><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td></tr><tr><td>triangle △</td><td><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td></tr></tbody></table> <p>0 1 2 3 4 5 6</p>	Beads Ava Has		circle ○	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	square □	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	triangle △	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Beads Ava Has									
circle ○	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
square □	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								
triangle △	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>								

Vocabulary

Bar graph – a graph that uses bars to show data

Picture graph – a graph that uses pictures to show data

Tally chart – a chart that uses tally marks to record data

Tally mark – a mark that shows one piece of data