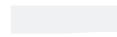
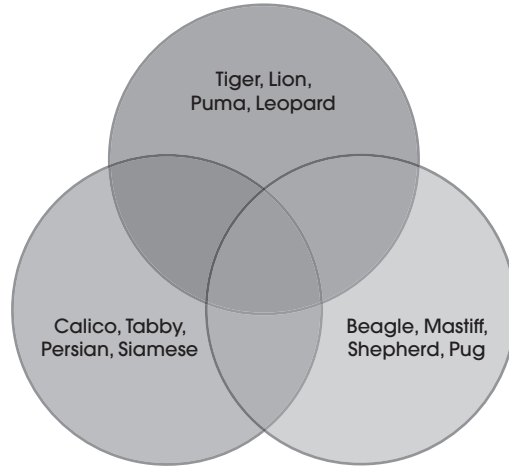




Activity One



a) Look at the chart below, then answer the following questions.









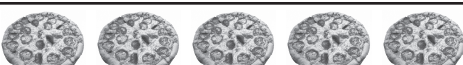
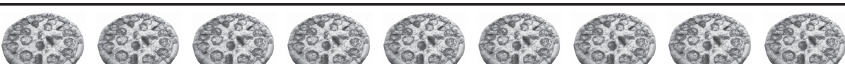
- i) What type of chart is this? _____
- ii) How is information used in this type of chart? _____
- iii) What does this chart represent? _____
- iv) Is this the right chart for this information? _____
- Why or why not? _____
- v) What chart would you use? _____
- vi) What was the question to get the information for this chart? _____
- vii) What title would you use for each section? _____
- Put your titles on the chart above. _____
- viii) Is there anything besides titles missing from this chart? _____
- ix) Write three things you know from this chart. _____
- x) Was this a survey or fact question to get this information? Explain. _____
- xi) What do the words in the bottom right circle have in common? _____
- xii) What do the words in the bottom left circle have in common? _____



Activity Two

a) The pictograph below shows the number of pizzas that were ordered for lunch by each grade of an elementary and middle school.

Pizza Ordered For Lunch  = 2 pizzas

Kindergarten	
Grade 1	
Grade 2	
Grade 3	
Grade 4	
Grade 5	
Grade 6	
Grade 7	

- i) What does this graph represent? _____
- ii) How many pizzas were ordered in total? _____
- iii) Which grade(s) ordered the most pizza? _____
- iv) Which grade(s) ordered the fewest pizzas? _____
- v) Which two classes ordered 24 pizzas in total? _____
- vi) How many pizzas did grade 4 order? _____
- vii) How many more pizzas did grade 3 order than grade 1? _____
- viii) If each pizza has eight slices and there is enough to serve students exactly two slices with none left over, how many students are in grade 6? _____
- ix) Which grade ordered 18 pizzas? _____
- x) Which grade ordered 6 pizzas? _____
- xi) What two grades ordered the same amount of pizzas? _____
- xii) Two grades had classes out of school on field trips. Which two grades probably had this? _____

NAME: _____



Activity Three

a) Elvira and Henry went ten pin bowling. Each pin is worth one point. Elvira's score was 95 and Henry's score was 90 after ten frames of bowling.

- i) What is one possible combination of scores for Elvira's game? _____
- ii) What is one possible combination of scores for Henry's games? _____
- iii) Who has the highest score? _____
- iv) Who has the lowest score? _____
- v) What is the range between scores? _____
- vi) What was Elvira's average score per frame of bowling? _____
- vii) What was Henry's average score per frame of bowling? _____
- viii) Elvira had a score of 89 before the last frame. How many pins did she knock over in that frame? _____
- ix) Henry had a score of 85 before the last frame. How many pins did he knock over in that frame? _____
- x) How many more pins did Elvira knock over than Henry in the game? _____
- xi) How many total pins did Henry and Elvira knock over? _____
- xii) What is the ratio of Elvira's score to Henry's score? _____

NAME: _____



Activity Four

a) How much do you know about graphs and charts? Answer the following questions to see what you already know about graphs and charts.

i) The information you have collected for a graph has values from 5 to 75, what scale would you use on a bar graph?

ii) You have information that you wish to compare the similarities and differences, what graph or chart would you use? _____

iii) What graph would you use to show parts of a whole? _____

iv) What is the title on the graph for?

v) What do the labels on the axes tell you about the graph?

vi) What kind of graph is represented in symbols? _____

vii) What is the term to show the difference between the smallest and the greatest numbers in a set of information? _____

viii) What kind of chart would you use to record how many people like something before graphing it in a bar graph? _____

ix) What is the term for asking people their opinion? _____

x) What is the definition of the median? _____

xi) What is data? _____

xii) How is a bar graph and a line plot the same and different?

xiii) What is a tally mark?



Activity Five

a) Look at the chart below, then answer the following questions.

Oranges	
Peaches	
Watermelon	
Strawberries	

- i) What kind of graph is this? _____
- ii) What does this graph tell you? _____
- iii) What is missing from this graph? _____
- iv) What can you do with the information now? _____
- v) What questions were probably asked to get this information? _____
- vi) Suppose the surveyor asked students to list favorite fruits. What was the most liked fruit? _____
- vii) Suppose the surveyor asked students to list favorite fruits. What was the least liked fruit? _____
- viii) How many more people like strawberries than peaches? _____
- ix) How many more people like watermelon than peaches? _____
- x) What two fruits were liked equally? _____
- xi) How many total people were surveyed for this chart? _____
- xii) What is the ratio of people who liked strawberries to people who liked oranges? _____

NAME: _____



Activity Six

a) Answer the following questions in complete sentences to help you gather information to conduct a survey.

i) How do you conduct a survey? List the steps.

ii) What do you do after a survey? List the steps.

iii) How do you decide on what type of graph to use and why?

iv) What four questions would be good questions to ask your class and why?

v) Did you ask the same questions as a classmate? Why or why not?

vi) How does using a graph solve a problem?

vii) What word problem can you create that involves making a graph?

viii) What kinds of graphs are used on the internet to provide information?

ix) What mistakes can be made when making a graph that would make information harder to understand?

x) What programs can you use on the computer to assist you in creating a graph?

xi) What is the most important part of a graph? Compare your answer with your classmates.

xii) Why might someone want to collect data about the kind of shoes kids wear? Explain.

xiii) If a restaurant did a survey of your class, what do you think their question might be? Why?

1.

- i) Venn Diagram
- ii) Compare and Contrast
- iii) Categories of Animals
- iv) Answers may vary.
- v) Answers may vary.

vi) How would you group these animals?

vii) Wild Cats, Dogs, House Cats

viii) Answers may vary.

ix) Answers may vary.
x) Fact

xi) Types of Dogs

xii) Types of Cats

1A

2.

- i) Pizza Orders
- ii) 86 pizzas
- iii) Grade 5
- iv) Kindergarten and Grade 2
- v) Grade 1 and 7
- vi) 16 pizzas
- vii) 6 pizzas
- viii) 40 students
- ix) Grade 7
- x) Grade 1
- xi) Kindergarten and Grade 2
- xii) Kindergarten and Grade 2

2A

3.

- i) Answers will vary.
Possible answer:
10, 10, 10, 10, 10,
9, 9, 9, 9, 9
- ii) Answers will vary.
Possible answer:
10, 10, 10, 10, 10,
9, 9, 8, 8, 6
- iii) Elvira

iv) Henry

v) 5

vi) 9.5

vii) 9

viii) 6 pins

ix) 5 pins

x) 5 more pins

xi) 185 pins

xii) 95:90

3A

4.

- a) Answers will vary.
This assessment is a strong gauge of how well students understand and can self-explain basic facts of data analysis and probability.

5.

- a) i) Tally Chart
- ii) Favorite Fruits
- iii) Title
- iv) Compare numbers.
- v) Answers will vary.

vi) Strawberries

vii) Peaches

viii) 15 people

ix) 10 people

x) Oranges and Watermelon

xi) 95 people

xii) 30:25 or 6:5

5A

6.

- a) Answers will vary.
This assessment is a strong gauge of how well students understand and can self-explain basic facts of data analysis and probability.

(these answers are for the 6 free bonus pages, see page 3 for download instructions)

6A

