



Preview - Information



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Google Slides Lessons Preview





Alberta Math Curriculum Statistics – Grade 1

3-Part Lesson Format

Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!

CREATING QUESTIONS

Learning Goal

We are learning to **create questions about people, things, and events**, so we can **gather and show information from others**.

CREATING QUESTIONS

Create questions you could ask your class

Word Bank

- 1) What is your favourite ?
- 2) Which do you like best?
- 3) What do you enjoy at school?
- 4) Which would you choose?
- 5) What is your favourite ?

Game	Pet
Holiday	Colour
Toy	Snack
Fruit	Animal
Outdoor Activity	Book

Part 2 – Action!

- Writing
- Matching
- Drag and Drop
- Drawing
- And More!

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

DISCUSSION QUESTIONS

- 1) If you wanted to learn something about your classmates, what could you ask them?
- 2) What is the difference between asking, "Do you like food?" and "What is your favourite food?"
- 3) What kinds of questions help us learn more about people?
- 4) Which question would help us collect more information: "Do you have a pet?" or "What kind of pet do you have?" Why?
- 5) What are some things you are curious about in your classroom? How could you turn your curiosity into a question?





Alberta Math Curriculum Statistics – Grade 1

TALLY MARKS

Count the tally marks.

8	
13	4
2	13
10	18
6	14

TALLY MARKS

Compare the tally marks and numbers.

		14			9	>
7				12		=
8		15			13	<
				18		

The grade 1's favourite pets are shown in the box. Count how many votes each pet got and use tallies.

Pets	Tallies




















Grade 1's Favourite Pets



Alberta Math Curriculum Statistics – Grade 1





READING CONCRETE GRAPHS

Count how many students chose each game.

Grade 1's Favourite Games			
			
			
			
			
			
			
			
Hockey	Soccer	Basketball	Dodgeball














1 2 3 4 5 6 7 8 9 0

Question	Answer
1) Which game is the most popular?	
2) Which game is the least popular?	
3) How many more students like playing soccer than dodgeball?	
4) How many students chose their favourite game in total?	
5) Order the games from most to least popular.	




READING CONCRETE GRAPHS

A Grade 1 class was asked, "Which toy do you like playing with the most?" The results are shown in the concrete graph below.

Grade 1's Favourite Toy			
			
			
			
			
			
			
Teddy Bear	Soccer Ball		























1 2 3 4 5 6 7 8 9 0

Question	Answer
1) Which toy was the most popular?	
2) Which toy was the least popular?	
3) How many total students were asked the survey question?	
4) How many more students chose _____ than Puzzle?	

READING CONCRETE GRAPHS

Your class votes for their favourite fruit. (1 picture = 1 vote)

Vote Result	Apple	Banana	Strawberry
	       	     	       

5

2

Apple




21

23

Strawberry

Banana

1

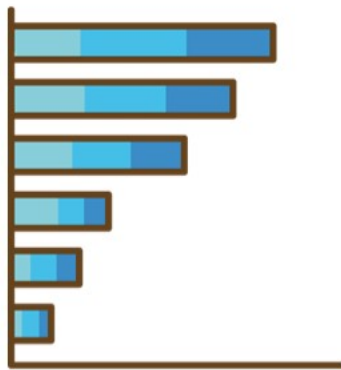




- 1) Which fruit has the most votes?
- 2) How many more students chose Apple than Banana?
- 3) How many students voted in total?
- 4) Put the fruits in order from highest to lowest number of votes.

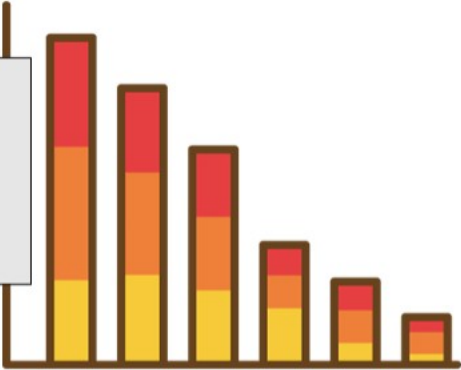


Workbook Preview



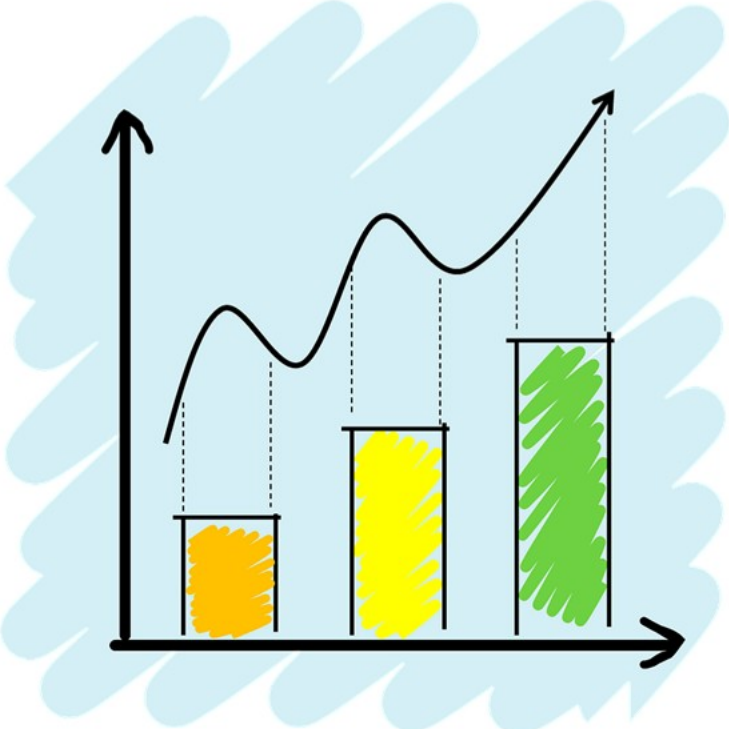


Grade 1
Statistics



	Curriculum Expectations	Pages
S.1	<p><u>Students investigate and represent data.</u></p> <ul style="list-style-type: none"> Share wonderings about people, things, events, or experiences. 	50

Preview of 40 pages from
this product that contains 74
pages total.



Creating Questions

Practice

Write 4 options for the survey questions below

1) How did you get to school today?

a)

c)

d)

2) What is your favourite sport?

a)

b)

c)

d)

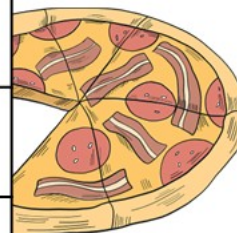
3) What is your favourite food?

a)

b)

c)

d)



PREVIEW

Creating Questions

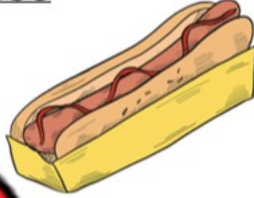


Practice

Write a question and 4 options for answers

1) What is your favourite food?

- a) Macaroni and Cheese
- b) Pizza
- c) Hot Dog
- d) Sandwich



PREVIEW

2)

- a) _____
- b) _____
- c) _____
- d) _____

3)

- a) _____
- b) _____
- c) _____
- d) _____

Yes/No Survey Questions



Practice

Write 5 questions below using yes/no answers

Word Bank - Ideas

TV Show	Sport	Movie	Food	Drink
Color	Person	Video Game	Subject	YouTube Channel

	Question - Example: Do you like pizza?
1)	
2)	
3)	
4)	
5)	

Tally Marks

= 1	= 2	= 3	= 4	/ = 5
/ = 6	/ = 7	/ = 8	/ = 9	/ / = 10

Part 1 Count the tally marks

_____	/	/	
_____	_____	_____	_____
/	/ /	/ /	/ / /
_____	_____	_____	_____

Part 2 Draw tally marks that match the number

4 =	8 =	
13 =	17 =	20 =
27 =	32 =	

Part 3 Which is greater? Use the < > or =

9 _____ /	11 _____ / /	16 _____ / / /
---------------	----------------------	----------------------------

Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class.

Name: _____

Which is greater? Use the < > or =

1)  _____ 8

2) 13 _____ 

3)  _____ 18

4) 21 _____ 

Name: _____

Which is greater? Use the < > or =

1)  _____ 8

2) 13 _____ 

3)  _____ 18

4) _____ 

Name: _____

Which is greater? Use the < > or =

1)  _____ 8


2) 13 _____ 

3)  _____ 18

4) 21 _____ 

Name: _____

Which is greater?

1)  _____ 8

2) 13 _____ 

3)  _____ 18

4) 21 _____ 

Tally Tables – Chocolate Milk

Part 1

Fill in the tally table below.



Chocolate Milk Orders by Day

Days of the Week	Tallies	Frequency
Monday		
Tuesday		
Wednesday		12
Thursday		
Friday		20

Part 2

Answer the questions below.






1) Which day was the most popular for chocolate milk orders?	
2) Which day was the least popular for chocolate milk orders?	
3) How many more students ordered chocolate milk on Friday than on Wednesday?	
4) How many chocolate milk orders were made on Friday and Wednesday together?	

Tally Tables – Favourite Fruit

Part 1

Fill in the tally table below.



Favourite Fruit		
Fruit	Tallies	Frequency
 Strawberry		
 Blueberry		8
 Raspberry		
 Banana		19
 Apple		

Part 2

Answer the questions below.

1) Which fruit is the most popular?	
2) Which fruit is the least popular?	
3) How many more people like banana than apple?	
4) Put the fruit in order from least popular to most popular.	

Tally Tables – Soccer Goals

Part 1

Fill in the tally table below.

The tally chart shows how many goals were scored by each team during the soccer season.



Team	Tallies	Frequency
Ravens		10
Fighting Bears		
Giants		22
Panthers		
Bears		26

Part 2

Answer the questions below.

1) Which team scored the most number of goals?

2) Which team scored the least number of goals?

3) How many more goals did the Bears score than the Ravens?





4) Put the teams in order from least number of goals to the most.

Exit Cards

Cut Out Cut out the exit cards below and have students complete them at the end of class.

Name: _____

Available items in your class.

			
Apple	Banana	Cookie	Crackers

Answer the questions below.





- 1) Which item is most available?

- 2) Which Item is the least available?

- 3) Write the items in order of least available to most available.

Name: _____

Available items in your class.

			
Apple	Banana	Cookie	Crackers

Answer the questions below.





- 1) Which item is most available?

- 2) Which Item is the least available?

- 3) Write the items in order of least available to most available.

Name: _____

Available items in your class.

			
Apple	Banana	Cookie	Crackers

Answer the questions below.





- 1) Which item is most available?

- 2) Which Item is the least available?

- 3) Write the items in order of least available to most available.

Name: _____

Available items in your class.

			
Apple	Banana	Cookie	Crackers

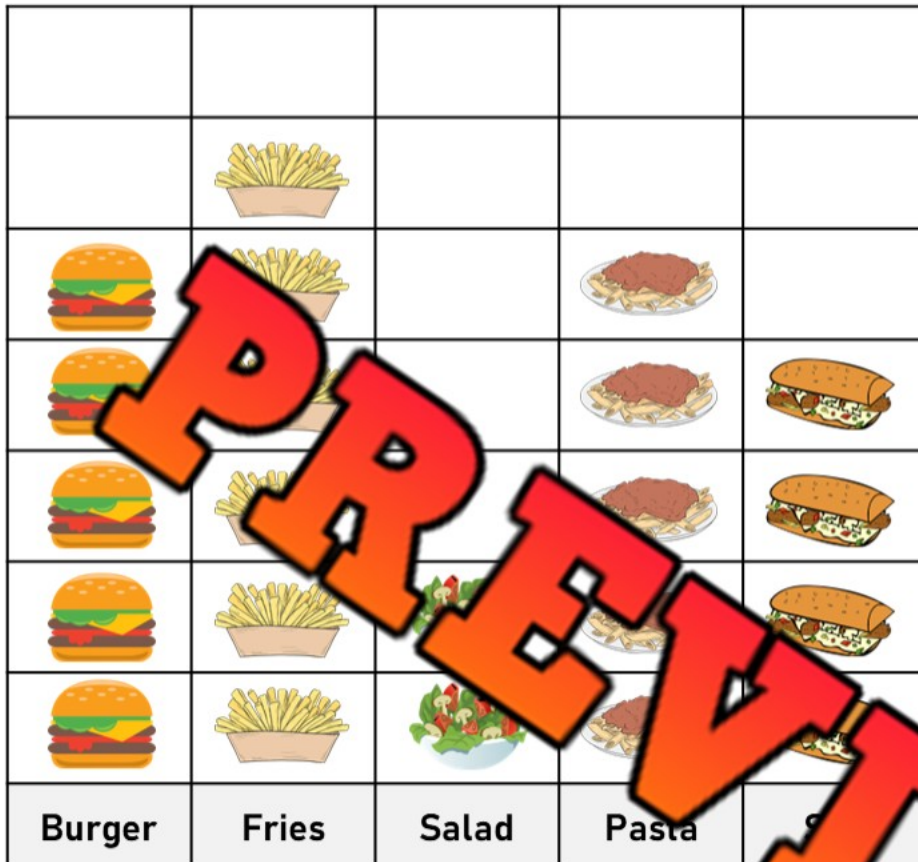
Answer the questions below.

- 1) Which item is most available?


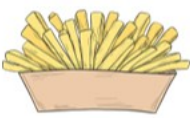



- 2) Which Item is the least available?

- 3) Write the items in order of least available to most available.

Reading a Concrete Graph - Food



LEGEND

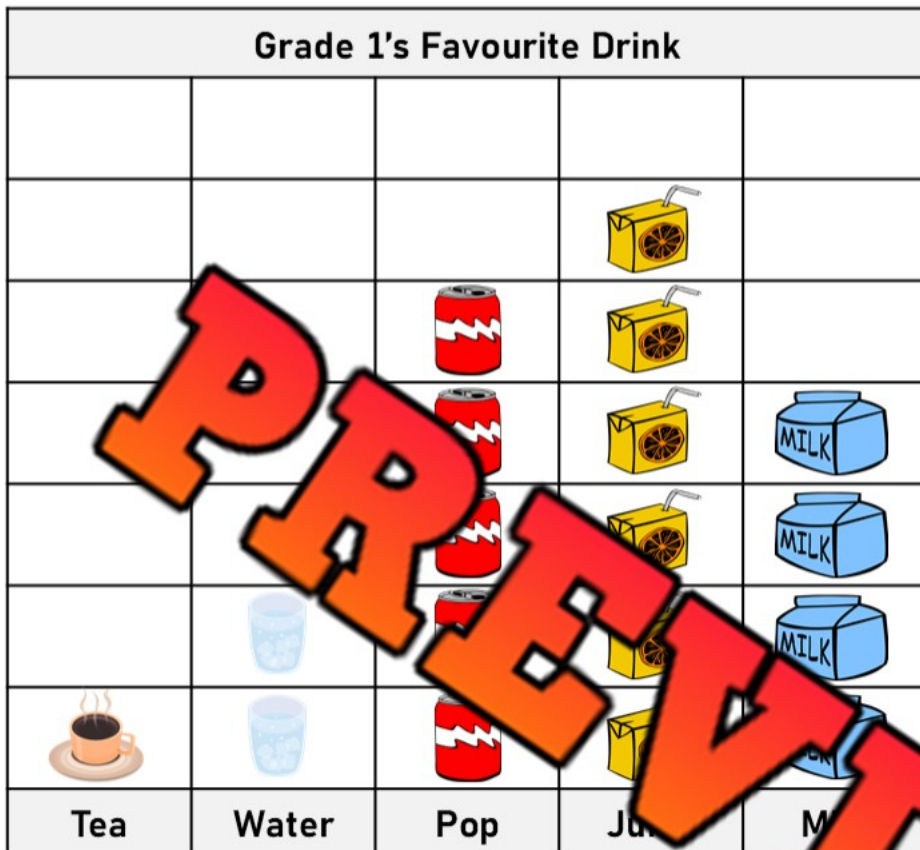
Burger =	
Fries =	
Salad =	
Pasta =	
Sub =	

Questions


Read the concrete graph and answer the questions.


- Which food was the most popular?
- Which food was the least popular?
- How many total people were asked the survey question?
- How many more people like fries than salad?
- Put the food in order of most popular to least popular.


Reading a Concrete Graph - Drinks





LEGEND

Tea = 

Water = 

Pop = 

Juice = 

Milk = 

Drink	Tea	Water	Pop	Juice	Milk
Frequency					

Questions

Read the concrete graph and answer the questions.

a) Which drink was the most popular?	
b) Which drink was the least popular?	
c) How many total people were asked the survey question?	
d) Put the drinks in order of most popular to least popular.	
<hr/> <hr/>	

Creating a Concrete Graph - Hobby

Instructions

Use the survey data to create a concrete graph.

Hanna wanted to know which hobby was the most popular. She asked her grade 1 classmates which hobby was their favourite. She used tallies to record the results.

Category	Reading	Computer	Gaming	Playing Outside
Tally				
Frequency				

Reading	Computer	Gaming	Playing Outside

LEGEND

Reading =



Computer =



Gaming =



Playing Outside =



Questions

1. What is the most popular hobby?

2. How many students did she survey?

Creating a Concrete Graph – Hobby

Instructions Survey your class and use the data in a concrete graph

Survey Question: What is your favourite hobby?

Instructions – Use tally marks to record the answer to the survey question.

Category	Reading	Computer	Gaming	Playing Outside
Frequency				



PREVIEW

Reading	Computer	Gaming	Playing Outside


1. What is the most popular hobby?

2. What is the least popular hobby?




Reading a Concrete Graph - Sports

LEGEND

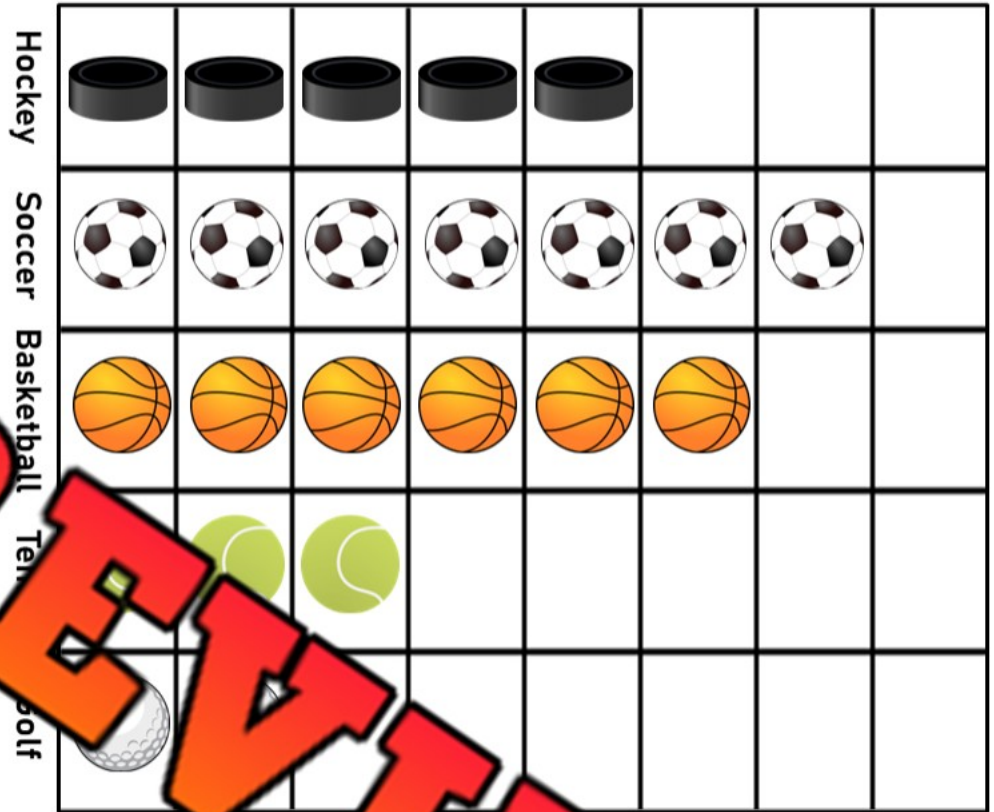
Hockey = 

Soccer = 

Basketball = 

Tennis = 

Golf = 



PREVIEW

Questions

Read the concrete graph and answer the questions.

a) Which sport was the most popular?

b) Which sport was the least popular?

c) How many total people were asked the survey question?

d) How many more people like soccer than golf?

e) Put the sports in order of least popular to most popular.

Name: _____

Creating Your Own Concrete Graph

Instructions

Create your own survey question and collect data to graph

Survey Question: _____

Title				

PREVIEW

Four Corners Activity: Reading Graphs

Objective

What are we learning about?

Students will practise reading and interpreting concrete graphs by participating in a Four Corners activity.

Materials

What will you need for the activity?

- A list of questions
- Large concrete graphs
- Labels for each corner (A, B, C, D)



Instructions





How will you complete the activity?

1. Display the concrete graph prominently in the classroom so all students can see it.
2. Prepare the classroom by labelling each corner with letters A, B, C, and D.
3. Explain to the students that you will be asking them questions about the information shown in the graph.
4. When you read a question, students will move to the corner that corresponds to the answer they think is correct. Some of these will be opinion questions. For these questions, have students discuss their opinions in that corner with others who also chose that option. Then discuss as a class.
5. Once all students have chosen their corners, reveal the correct answer and discuss why it is correct.
6. Repeat with different questions to reinforce their understanding of concepts.

Graph

What did you learn from the concrete graph?

Grade 1's Favourite Season

			
			
			
			
			
			
			
			
Winter	Spring	Summer	Fall

PREVIEW

Name: _____

29


Question	A	B	C	D
Which season has the most votes?	Summer	Spring	Fall	Winter
Which season has the fewest votes?	Winter	Fall	Spring	Summer
How many more votes does summer have compared to winter?	5	3	2	4
Which two seasons have the same number of votes?	Spring and Fall	Summer and Winter	Spring and Summer	Winter and Fall
How many total votes are there for all seasons?	26	35	41	22
Which season has the second most votes?	Spring	Winter	Fall	Summer
If 5 more students voted for spring, how many votes would spring have?	15	18	20	13
Which season is your favourite for the most students?	Summer	Spring	Fall	Winter
If 3 students changed their vote from fall to winter, how many votes would winter have?	5	11	9	10
Which season has fewer votes, spring or fall?	Spring	Summer	Winter	Summer
What is the total number of votes for winter and summer combined?	5	7	8	10
If 2 votes were moved from summer to spring, how many votes would summer have?	3	4	5	6
How many votes does fall have?	5	7	8	12
If each student could only vote once, how many students are in the class?	20	26	30	34
How many more votes does spring have compared to fall?	0	1	2	3
Which season has more votes, summer or spring?	Summer	Fall	Winter	Spring
If 4 students changed their vote from winter to spring, how many votes would spring have?	19	16	14	12
Which season is your favourite?	Winter	Summer	Spring	Fall
How many votes do spring and fall have together?	16	15	18	25

Horizontal Pictograph - Candy

A **pictograph** is a graph that displays data using symbols or pictures. Read the pictograph below and answer the questions.

Sam and his friends collected candy on Halloween. The amount of candy each friend collected is displayed below in the pictograph.

Friend	Number of Candies Collected	Frequency
Sam		
Steve		
Tony		
Jill		
Stacy		

 = 1 Candy

a) How much is one candy worth?

b) Who collected the most candy?






c) How much more candy did Jill collect than Tony?

d) How much total candy was collected?

e) Put the friends in order of who got the most to who got the least candy.

Horizontal Pictograph - Books

Mr. Wilson's class had a competition to see who could read the most pages in a week. The results have been displayed in the pictograph below for the top 5 readers in the class.

Friend	Number of Pages Read	Frequency
John		
William		
Emma		
Nick		
Maddy		



- How many pages is one book worth?
- Who read the most amount of pages?
- How many total pages were read by these 5 students?
- How many more pages did Emma read than William?
- Put the students in order of who read the most to who read the least.

Creating a Horizontal Pictogram

Kevin and his friends went to an arcade on Saturday. They had a contest to see who could win the most tickets from the arcade games. The results are displayed in the table below.



Kevin	2
Neil	4
Steve	5
Dane	7
Chris	3



Questions

Draw a horizontal pictogram that displays the data above

Kevin	
Neill	
Steve	
Dane	
Chris	



= 1 ticket

1) Who won the most tickets?

2) How many more tickets did Dane win than Neil?

3) How many total tickets did the 5 kids win?

Exit Cards

Cut Out Cut out the exit cards below and have students complete them at the end of class.

Name: _____

Favourite ice cream flavour survey.

Chocolate = 5	Strawberry = 7
Vanilla = 6	Cookie Dough = 4

Draw a pictograph that displays the data above.

= 1 Ice cream

Chocolate	
Vanilla	
Strawberry	
Cookie Dough	

Name: _____

Favourite ice cream flavour survey.

Chocolate = 5	Strawberry = 7
Vanilla = 6	Cookie Dough = 4

Draw a pictograph that displays the data above.

= 1 Ice cream

Chocolate	
Vanilla	
Strawberry	
Cookie Dough	

Name: _____

Favourite ice cream flavour survey.

Chocolate = 5	Strawberry = 7
Vanilla = 6	Cookie Dough = 4

Draw a pictograph that displays the data above.

= 1 Ice cream

Chocolate	
Vanilla	
Strawberry	
Cookie Dough	

Name: _____

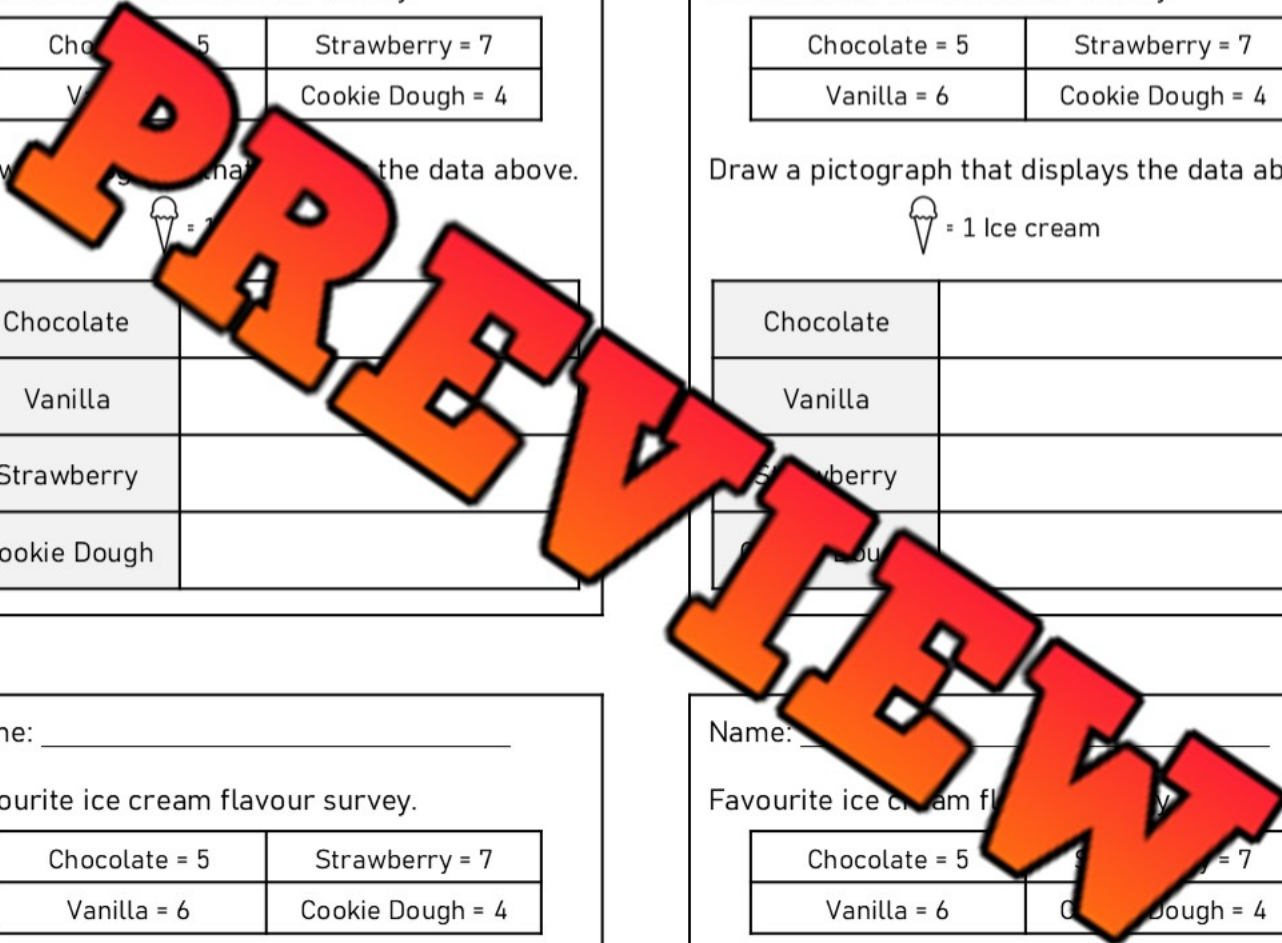
Favourite ice cream flavour survey.

Chocolate = 5	Strawberry = 7
Vanilla = 6	Cookie Dough = 4

Draw a pictograph that displays the data above.

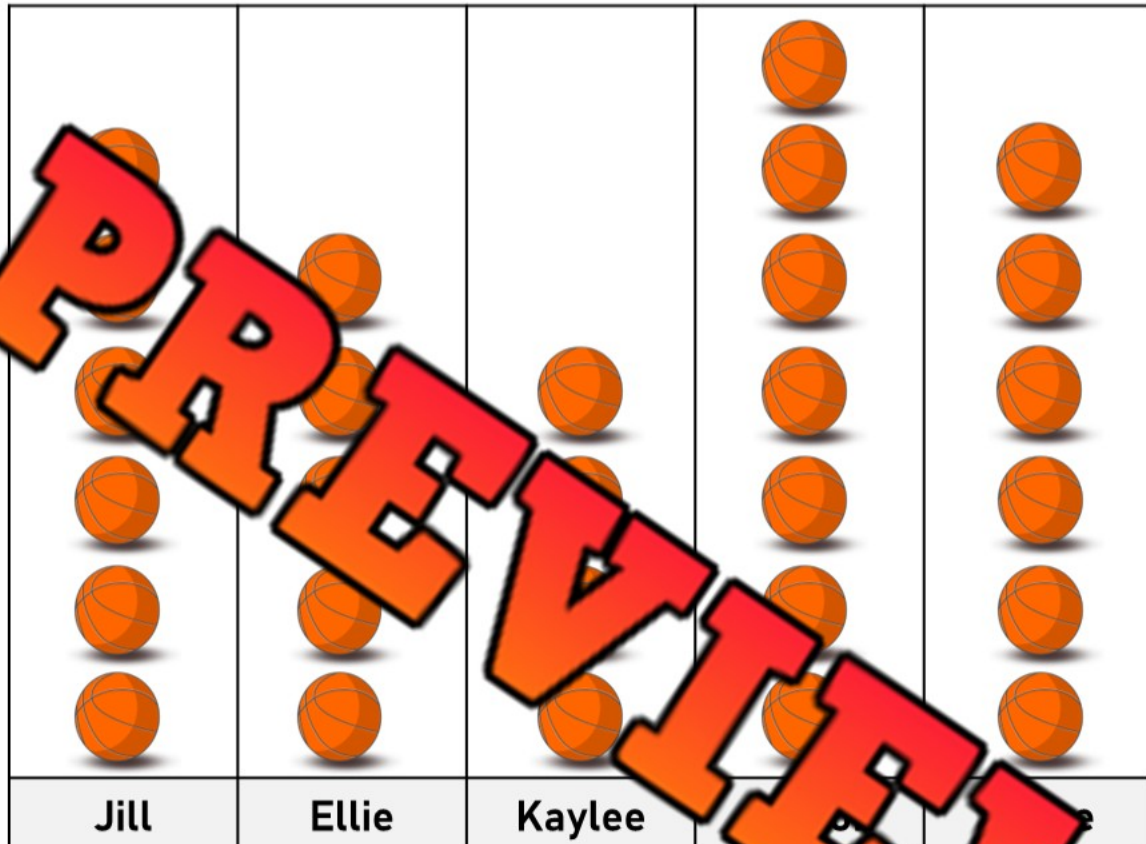
= 1 Ice cream

Chocolate	
Vanilla	
Strawberry	
Cookie Dough	



Reading a Pictograph - Basketball

Grace's basketball team counted how many points each of the players scored in a tournament. The point totals for the starting 5 are displayed below in a pictograph.



= 1 point

- | | |
|---|--|
| a) How many points is one basketball worth? | |
| b) Who scored the most points in the tournament? | |
| c) How many total points did all 5 girls score? | |
| d) How many more points did Jill score than Ellie? | |
| e) Put the players in order of who scored the least to who scored the most. | |

1)

2)

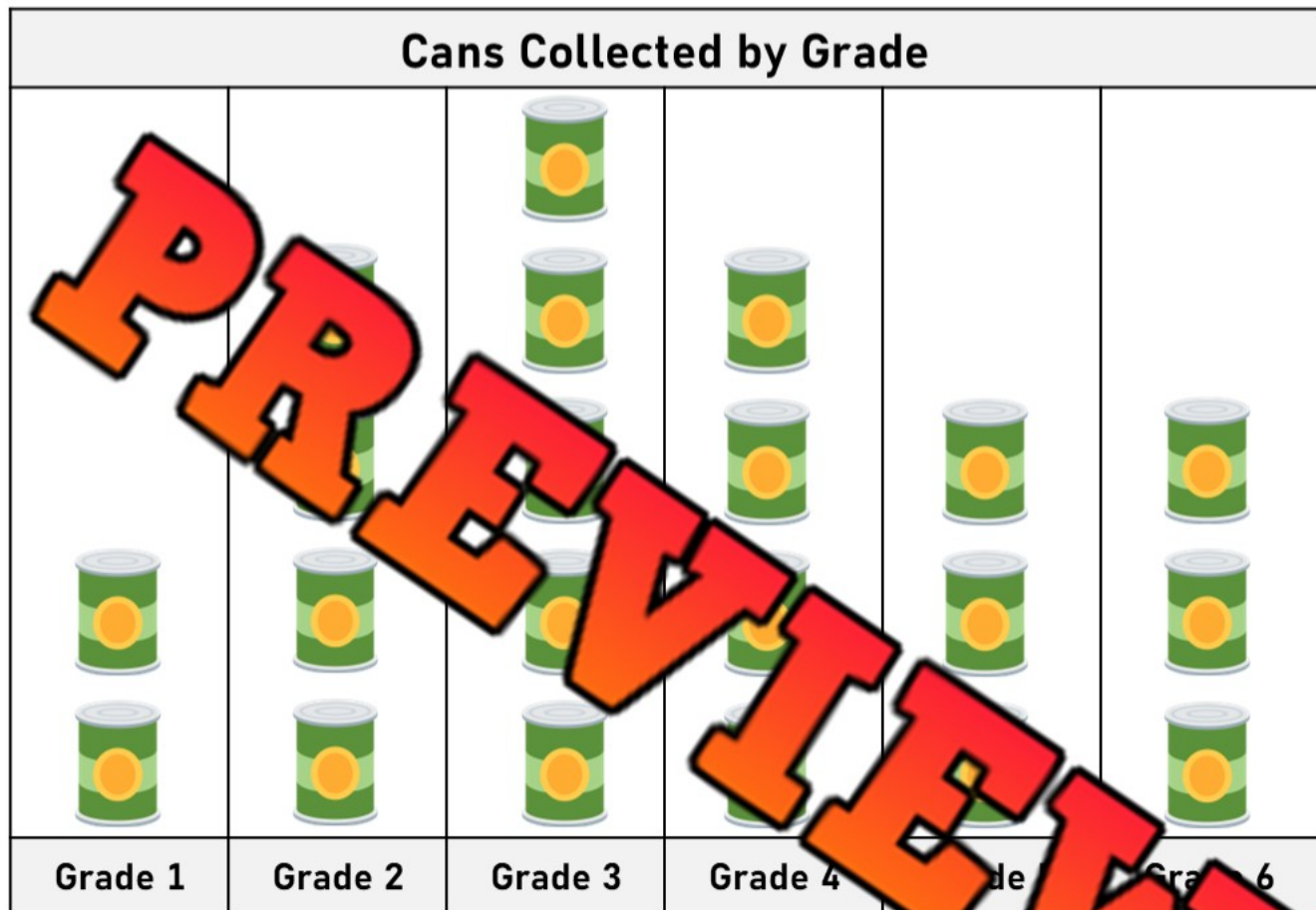
3)


4)

5)

Reading a Pictograph – Canned Food

Maplewood Public School had a canned food drive last month. The students in each class brought in cans of food. The totals for each grade are displayed below in the pictograph.



 = 1 can

- | | |
|--|--|
| a) How many cans is one picture worth? | |
| b) Which class brought the most number of cans? | |
| c) How many total cans were brought in at Maplewood Public school? | |
| d) How many more cans did the grade 3's bring in than the grade 6's? | |
| e) How many more cans did the grade 4's need to win? | |

Activity Title: Flip the Data

Objective

What are we learning about?

Students will engage in a fun and active game where they read data from a pictograph and answer questions to earn the opportunity to flip a bottle or cup.

Materials

What will you need for the activity?

- Flip cups or bottles
- A smartboard or projector to display bar graphs
- Timer (stopwatch or stopwatch app)
- Question cards with questions about the graph data
- Scoreboard to track team performance



Instructions

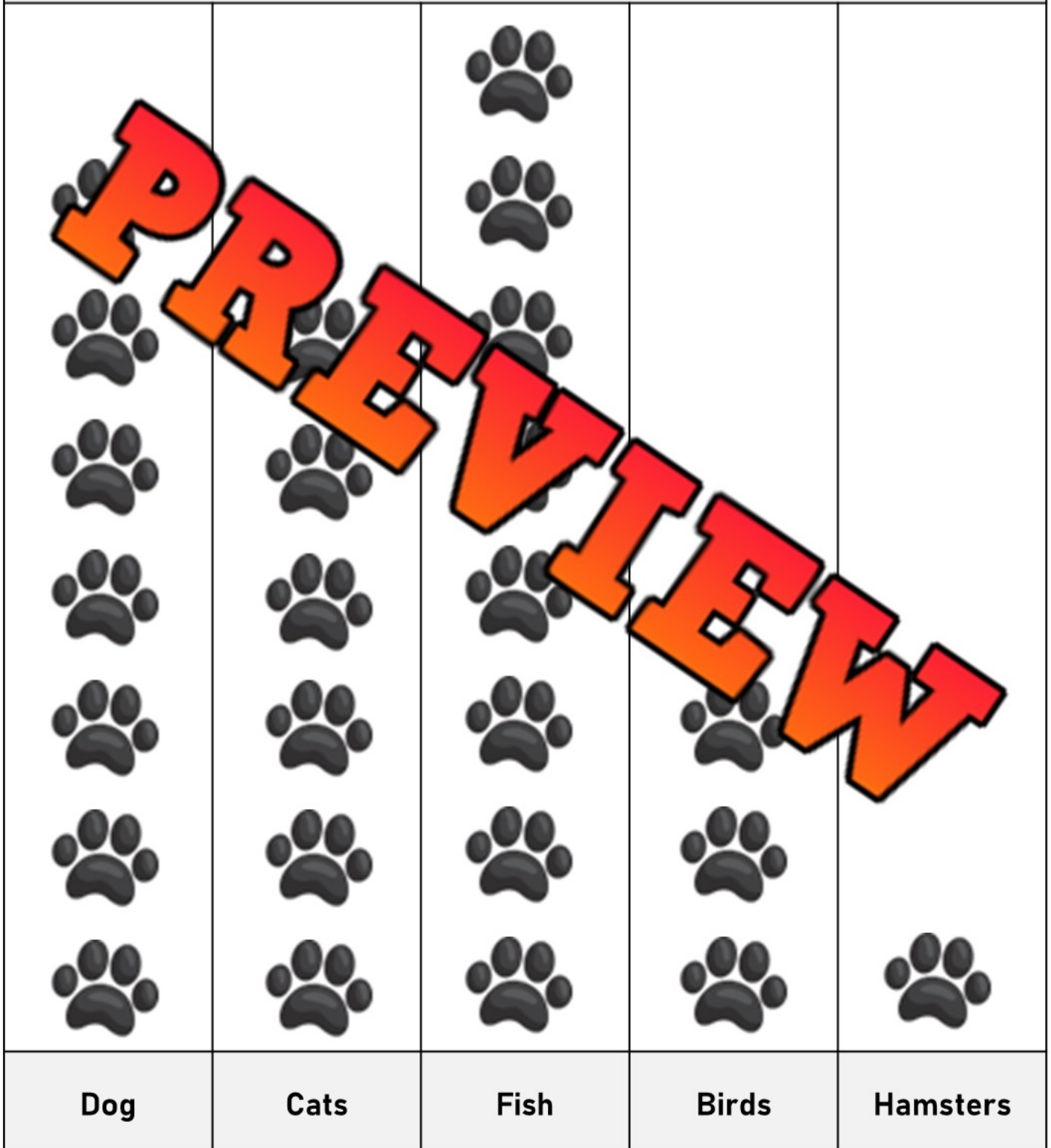
How will you complete the activity?

1. Divide the class into small teams, ideally of 5 students each.
2. Prepare a series of pictographs to display on a smartboard along with corresponding question cards that ask about the data in the graph.
3. One team at a time comes to the front where the graph is displayed.
4. Display the first pictograph on the smartboard.
5. The first student from the active team reads the graph and selects a question card. Start the timer when the question is first shown.
6. The student answers the question based on the data presented in the graph. The teacher checks the answer.
7. If the student answers correctly, they have 5 tries to flip their bottle or cup until they land it upright. When they do, the next teammate can take their turn.
8. If the student's answer is incorrect, they must try another question card before they can attempt to flip.
9. The team's turn ends either when all members have successfully flipped their bottle/cup or when the timer reaches a set limit (e.g., 3 minutes).
10. Record the team's time or number of successful flips on the scoreboard.
11. Repeat steps 4-10 for each team. The team with the fastest time/most flips wins.

Graph 1

What did you learn from the pictograph?

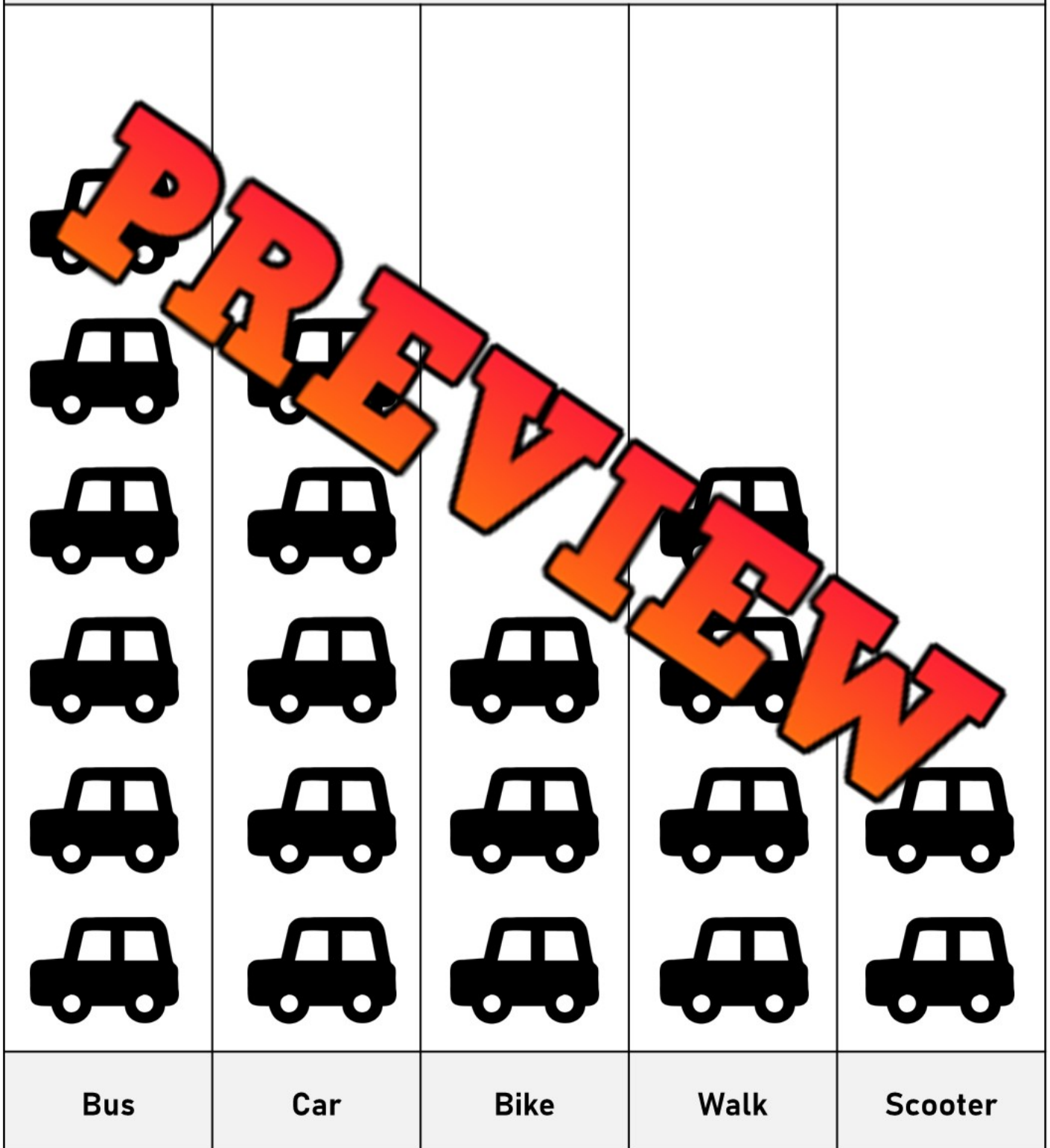
Number of Pets Owned by Students



Graph 2

What did you learn from the pictograph?

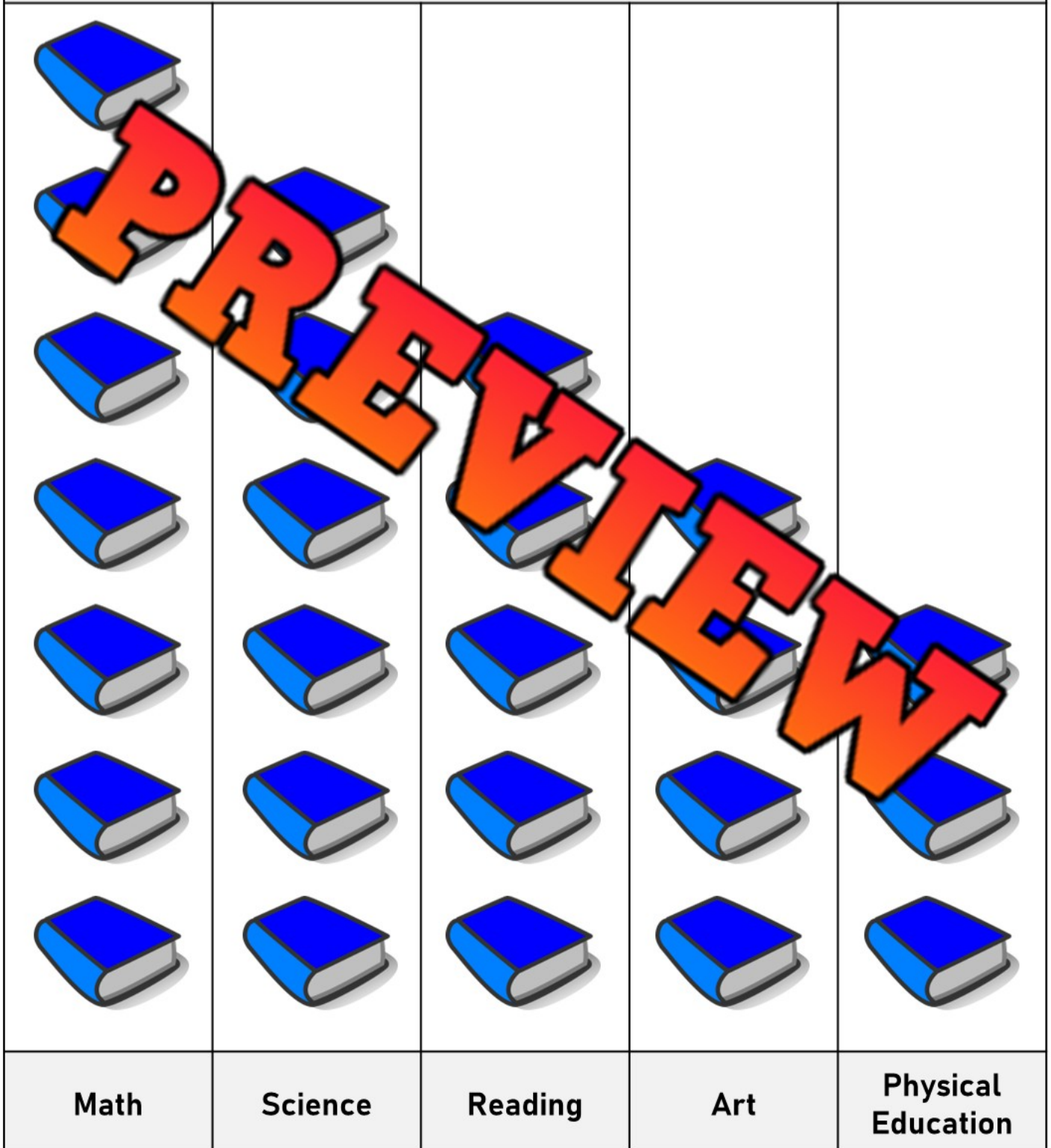
How Students Get to School



Graph 4

What did you learn from the pictograph?

Favourite School Subjects of Students



Graph 5

What did you learn from the pictograph?

Types of Fruit Eaten by Students for Lunch



Apples

Bananas

Grapes

Oranges

Mangos

Questions

Choose a question to ask the student who is about to flip their bottle.

Which category has the most votes?

Which category has the least votes?

How many votes are there in total?

How many categories are displayed on the graph?

How many categories have more than 5 votes?

How many categories have less than 4 votes?

How many votes are there in the second most popular category?

How many categories have exactly 4 votes?

How many categories have a total number of votes that is an even number?

How many categories have a total number of votes that is an odd number?

Are there any categories that have the same number of votes? Which ones?

How many categories have between 3 and 6 votes?

How many categories have more than 6 votes?

Which category has exactly 3 votes?

How many items are there in the three most popular categories combined?

How many categories have a total of less than 6 votes?

If you could add another category to this graph, what would it be?

How many categories have exactly 5 votes?

Name a category that has an odd number of votes?

How might the information on the graph impact decisions or opinions?

Activity – Concrete Graph to Pictograph

Objective

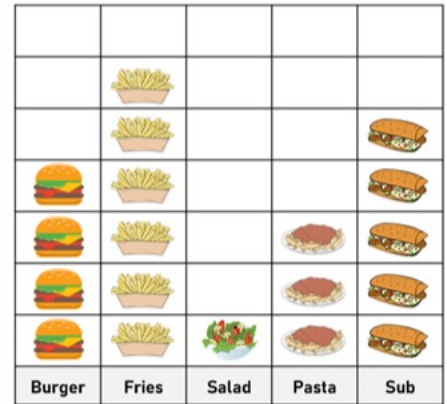
What are we learning about?

Students will work together to create a concrete graph using real classroom objects and data collected from the class. After participating in the class graph, students will create their own pictograph.

Materials

What will you need for the activity?

- Concrete graph materials (blocks, cubes, counters, link rings, or sticky notes)
- Chart paper or a board, or a space for the class graph
- Pictograph template sheet



Instructions

How will you complete the activity?

1. Choose a class survey topic together, such as favourite sport, favourite season, favourite pet, or favourite school subject.
2. Ask each student to share their answer to the survey question and place one object, counter, or sticky note in the matching category to help the teacher create a graph as a class.
3. Observe the completed concrete graph together and discuss which categories have the most, least, or equal amounts.
4. Model how the information from the concrete graph can be transferred into a pictograph using symbols or pictures to represent the data.
5. Give each student a pictograph template and have them use the class data to create their own pictograph independently.
6. Encourage students to add labels, titles, and matching symbols carefully so their pictograph clearly represents the data collected by the class.
7. Review the completed pictographs together by comparing answers and discussing what the graphs show about the class survey results.

Name: _____

Vertical Template

Use the pictograph template below

Title:				

PREVIEW

Key

Name: _____

Horizontal Template

Use the pictograph template below

Title:	











PREVIEW

Key

Creating a Pictograph

Part 1

Read the concrete graph to get the data you need


Grade 1's Favourite Vegetable			
			
			
			
			
			
Broccoli	Carrots	Spinach	Potatoes

Category	Frequency
Broccoli	
Carrots	
Spinach	
Potatoes	

Part 2

Create a pictograph below





















Vegetables	Votes
Broccoli	
Carrots	
Spinach	
Potatoes	

1 vote = 

Creating a Pictograph

Part 1

Read the concrete graph to get the data you need

Grade 1's Favourite Season			
			
			
			
			
			
			
			
Spring	Summer	Fall	Winter

Category	Frequency
Spring	
Summer	
Fall	
Winter	

Part 2

Create a pictograph below

Vegetables	Votes
Spring	
Summer	
Fall	
Winter	

1 vote =  2 votes = 

Unit Test – Statistics

Part 1 Count the tally marks

 _____	 _____	 _____	 _____	 _____
-----------	-----------	-----------	-----------	-----------

Part 2 Draw tally marks that match the number

3 =	10 =	17 =
15 =		20 =

Part 3 Read the pictograph and answer the questions

LEGEND

Math =

Art =

Science =

Gym =



a) Which subject is the most popular?	
b) Which subject is the least popular?	
c) Put the subjects in order of most popular to least popular.	
<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <hr style="border: 0; border-top: 1px solid black;"/>	

Kerry is training for a marathon run. She practiced 5 days last week. The amount of kilometres she ran each day is listed below. Graph each of her runs in the concrete graph below.

Day 1	3
Day 2	6
Day 3	2
Day 4	
Day 5	



= 1 kilometre

1) Which day did Kerry run the most?

2) Which day did Kerry run the least?

3) How many more kilometres did she run on day 4 than day 3?

4) How many total kilometres did she run in the 5 days?