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Google Slides Lessons Preview





Alberta Math Curriculum Statistics– Grade 3

3-Part Lesson Format

Part 1 – Minds On!


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

STATISTICAL QUESTIONS

Learning Goal

We are learning to **ask statistical questions and identify first-hand and second-hand data using simple investigations**, so we can **predict and understand different answers when collecting information.**

STATISTICAL QUESTIONS

If you asked your classmates these questions, would they be considered statistical questions? 

#	Questions	Yes	No
1)	What is your favourite colour?	Yes	No
2)	What is your teacher's name?	Yes	No
3)	How many pets do students in your class have?	Yes	No
4)	How old are you?	Yes	No
5)	What snacks do students in your class like?	Yes	No
6)	What is today's date?	Yes	No
7)	How many books do students read in a week?	Yes	No
8)	What is your school's name?	Yes	No
9)	What games do students like to play at recess?	Yes	No
10)	What is the address of city hall?	Yes	No

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

STATISTICAL QUESTIONS

Write your own predictions for the statistical questions below **1 2 3 4 5 6 7 8 9 0**

#	Questions	Prediction	
1	Which snack is most popular in your class – chips, fruit, cookies, or crackers?		
2	Which game do students like the most – tag, soccer, basketball, or hide-and-peek?		
3	How many minutes do students in my class read each day?	Least	Most
4	How many minutes do students in my school play outside each day?	Least	Most
5	How many pets do students in my class have?	Least	Most
6	How many books do students in my class read in a week?	Least	Most



Alberta Math Curriculum Statistics- Grade 3

TALLY MARKS

1 2 3 4 5 6 7 8 9 0

The students in a class were asked what their favourite fruit is. The results are shown using tally marks. Fill in the frequency for each category.

Category	Apples	Bananas	Oranges	Grapes
Tally				
Frequency				

Oranges

Grapes

1

Bananas

32

- 1) How many students were surveyed?
- 2) Which fruit is the most popular?
- 3) Which fruit is the least popular?
- 4) How many more students chose apples than grapes?

LINE PLOT

What is a Line Plot?

- A **line plot** shows data using **marks (X's or dots)** above a number line.
- Each mark stands for **one item**.
- Line plots help us **see how often something happens**.

Parts of a Good Line Plot

- Title** that tells what the data is about
- Number Line** that shows the values (numbers)
- Marks (X's or dots)** to show how many
- Labels** to explain what the numbers mean

Why Do We Use Line Plots

- To **count** how many times something happens
- To **compare** data

Number of Cars Sold

LINE PLOT

Answer the questions about the graph.

Pizza Burger Rice Pasta Salad

Favourite Lunch					
Food	Pizza	Burger	Rice	Pasta	Salad
Tally					
Frequency					

- 1) Which lunch is the most popular?
- 2) Which lunch is the least popular?
- 3) How much more popular is **pizza** than pasta?
- 4) How many students were surveyed?



Alberta Math Curriculum Statistics- Grade 3

BAR GRAPH

How to Read a Bar Graph

- Read the title to know what the data is about.
- Look at the labels to see what each bar represents.
- Compare the bars to find:
 - Which group has **more**
 - Which group has **less**
 - Which groups have the **same amount**

Why We Use Bar Graphs

- Bar graphs help us **compare groups easily**.
- They help us **see patterns and differences**.
- They help us **answer questions** from the graph.

Favourite Seasons in Grade 3

Season	Number of Votes
Spring	5
Summer	6
Fall	3
Winter	2

BAR GRAPHS

Answer the questions about the graph.

Grade 3 students were asked which after-school activity was their favourite.

1 2 3 4 5 6 7 8 9 0

Grade 3s Favourite After-School Activities

Activity	# of Students
Helping At Home	3
Video Game	8
Playing Outside	7
Drawing	4
Reading	2

- Which after-school activity is the **most popular**?
- Which activity is the **least popular**?
- How many students chose **reading**?
- How many students chose **drawing and playing outside** altogether?
- How many **more** students chose playing **video games** than **reading**?

CREATING A SCALE

What is a Scale?

- A scale shows how we count the numbers on a graph.
- It helps us organize the data so everything fits on the graph properly.
- We can count by 1s, 2s, 5s, or 10s depending on the data.
- A good scale makes the graph clear and easy to understand.

Steps to Create a Scale

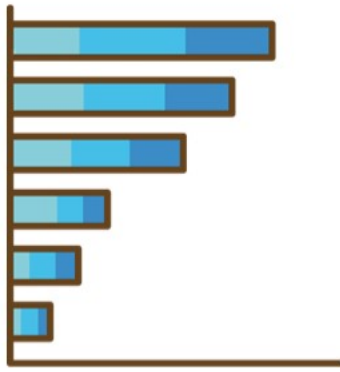
- Step 1:** Look at your data and find the smallest and largest values.
- Step 2:** Count how many lines or spaces you have on the graph.
- Step 3:** Choose how to count (by 1s, 2s, 5s...) so all the data fits.
- Step 4:** Add clear labels to your scale so others can read your graph easily.

Favourite Drinks

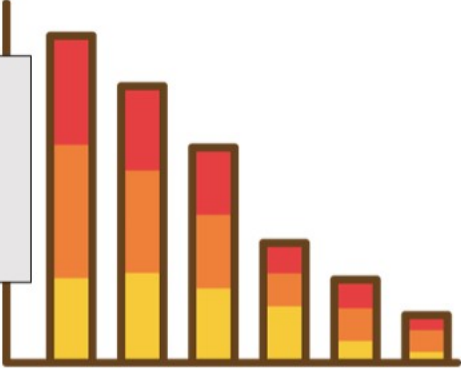
Drink	Number of Votes
Pop	4
Water	2
Juice	3
Milk	6

Favourite Food

Food	# of votes
Hot Dog	30
Pizza	60
Fries	50
Tacos	80
Sandwich	35

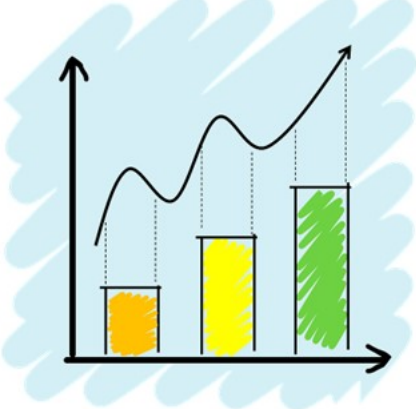


Grade 3
Statistics



	Curriculum Expectations	Pages
S.1	<p><u>Students interpret and explain representations of data.</u></p> <ul style="list-style-type: none"> Formulate statistical questions for investigation. Predict the answer to a statistical question. 	48
	<p>collection of data in relation to a statistical question.</p> <ul style="list-style-type: none"> Examine First Nations, Métis, or Inuit representations of data. Consider possible answers to a statistical question based on the data collected. 	

Preview of 40 pages from
this product that contains 75
pages total.



Name: _____

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What is a Statistical Question?

When we ask a statistical question, we can collect data that answers that question.

A **statistical question** is a question that could have more than one answer.

A statistical question **is not** a question that has only one answer.

Statistical questions can have numbered answers or worded answers.

Not a Statistical Question	Statistical Questions
1) How many dogs do you have? (only one answer)	1) How many dogs do the students in grade 3 have? (could have many different answers)
2) What is your favourite colour?	2) What is the favourite colour of 3 rd graders? (could have many different answers)

Practice

question is a statistical question - yes or no?

Question	Yes	No
1) How much did Steven pay for his new shoes?	Yes	No
2) Which colours are most popular for grade 3 students?	Yes	No
3) How many times have the students in grade three left Canada?	Yes	No
4) How many times have you left Canada?	No	No
5) How many steps do the grade 3's take each day?	Yes	No
6) How many steps did your teacher take today?	Yes	No
7) How many organized sports do the teachers at your school play?	Yes	No
8) How many seconds does it take Emma to run the 100 m race?	Yes	No
9) How many seconds does it take for the grade 3s to run 100 m?	Yes	No
10) How many treats do the students in your school eat a day?	Yes	No

Writing Statistical Questions

When we write a statistical question, we need to think about what we want to learn and who we want to learn about. Who we ask our statistical question is our population.



Subject	Population	Question
Hockey	The Calgary Wolves Atom Team	How many goals have each player on the Calgary Wolves Atom hockey team scored?
Video Game	Students in my class	Which video game system do the grade 3's like the best - PlayStation, Nintendo, or Xbox?

Practice

Write your own statistical questions about the subjects below

Subject	Population	Question
1) School	Who will ask?	
2) Sports		
3) Food		
4) Movies		
5) Computers		

Statistical Questions - Predictions

When we create our own statistical questions, we should have a prediction or guess as to what the results will be. This prediction will either verify our understanding or teach us something new about our population.



Question	Prediction
How long does it take the students in grade 3 to get to school?	Least - 5 minutes Most - 30 minutes

Practice your own predictions for the statistical questions below

Questions	Prediction	
1) Which drink is the most popular in my class - milk, juice, water, pop, or chocolate milk?		
2) Which subject does your class like best - math, science, language, art or gym?		
3) How many minutes do students in my class watch shows/movies each day?	Least	Most
4) How many minutes do the teachers at my school watch shows/movies each day?	Least	Most
5) How many fruits or vegetables do students in my class eat each day?	Least	Most
6) How many fruits or vegetables do teachers in my school eat each day?	Least	Most

First-Hand vs Second-Hand Data

First-Hand Data

Data that you have collected yourself

Example

- asking your classmates their favourite food

Second-Hand Data

Data that has been collected by someone else

Example

- How much rainfall landed in Saskatoon in May

Part 1

Read the description and circle if it is first-hand or second-hand data

1) You look up the number of goals per game in the playoffs last year and graph the data	First-Hand Second-Hand
2) You measure the heights of everyone in your class	First-Hand Second-Hand
3) You measure the snow in your yard each day for a week	First-Hand Second-Hand
4) You look up how much snow fell each day in December	First-Hand Second-Hand
5) You record how many minutes you play video games each day	First-Hand Second-Hand
6) You look up the distances from your house to different countries around the world	First-Hand Second-Hand

Part 2

Write your own first-hand and second-hand data description below

1) First-Hand	
2) Second-Hand	
3) First-Hand	
4) Second-Hand	

Exit Cards

Cut Out

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

Name: _____

Read the description and circle if it is first-hand or second-hand data.

1) You interview your classmates to find out their favourite movies.	First-Hand
	Second-Hand
2) You research the average temperature in your city over the past decade using online resources.	First-Hand
	Second-Hand
3) You analyze the scores from your school's basketball team for the past season.	First-Hand
	Second-Hand
4) You take photos of different types of leaves you find in your neighbourhood and classify them.	First-Hand
	Second-Hand

Name: _____

Read the description and circle if it is first-hand or second-hand data.

1) You interview your classmates to find out their favourite movies.	First-Hand
	Second-Hand
2) You research the average temperature in your city over the past decade using online resources.	First-Hand
	Second-Hand
3) You analyze the scores from your school's basketball team for the past season.	First-Hand
	Second-Hand
4) You take photos of different types of leaves you find in your neighbourhood and classify them.	First-Hand
	Second-Hand

Name: _____

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	Second-Hand
3) You analyze the scores from your school's basketball team for the past season.	First-Hand
	Second-Hand
4) You take photos of different types of leaves you find in your neighbourhood and classify them.	First-Hand
	Second-Hand

Name: _____

Read the description and circle if it is first-hand or second-hand data.

1) You interview your classmates to find out their favourite movies.	First-Hand
	Second-Hand
2) You research the average temperature in your city over the past decade using online resources.	First-Hand
	Second-Hand
3) You analyze the scores from your school's basketball team for the past season.	First-Hand
	Second-Hand
4) You take photos of different types of leaves you find in your neighbourhood and classify them.	First-Hand
	Second-Hand

First-Hand Data Survey Questions

When we collect first-hand data, we often use survey questions to ask people to gather the data. We can also create research questions for experiments we plan to perform so that we can collect first-hand data.

Example of First-Hand Survey Questions

- What is your favourite hobby?
- What is your favourite food?

Example of First-Hand Research Questions

- How much snow will fall this month in my backyard?
- How many pushups can I do every day for 10 days?

Part 1

Write 5 survey questions you could ask to gather first-hand data

1)

2)

3)

4)

5)

Part 2

Write 5 research questions for experiments you could do to gather first-hand data

1)

2)

3)

4)

5)

Second-Hand Data – Generating Questions

When we collect second-hand data, we are finding data from another source. This means someone else has collected the data for others to use as second-hand data.

Using second-hand data allows us to answer questions we may have. With so much data available to us, we can write research questions about almost anything and find the data online.

Example

- 1) Which YouTubers had the most views last year?
- 2) Which players scored the most points last year?
- 3) What were the average temperatures in Canada, the USA, Jamaica, and Russia last year?

Practice

Write a question you could look up to gather second-hand data

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

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

3 =	7 =	
12 =	15 =	18 =
26 =	31 =	

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

8 _____	13 _____	14 _____
---------	----------	----------

Tally Marks and Frequency Tables

Part 1

Fill in the table by writing in the frequency of the tally marks

1. The students in a class were asked what their favourite sport is. The results are listed below. Fill in the frequency of the tally marks in each category below.

Category	Football	Hockey	Basketball	Soccer
Tally				
Frequency				

- a) How many people were in the class? _____
- b) Which sport is the most popular in the class? _____
- c) Which sport was the least popular in the class? _____
- d) How many more people liked hockey than basketball? _____



Part 2

Fill in the table by drawing the tally marks based on the frequency

2. Henry asked his friends what food they liked the best. He forgot to write down the categories, but he wrote down the frequency. Help him fill in the table by drawing the tally marks.

Category	Pizza	Sandwich	Hot Dogs	French Fries
Tally				
Frequency	13	5	12	9

- a) How many friends participated in the survey? _____
- b) Which food is the most popular? _____
- c) How many more friends liked French fries than sandwiches? _____

Name: _____

16

Activity Title: Tally Mark Nature Walk

Objective

What are we learning about?

Students will learn to use tally marks to count and record data by observing and tallying specific natural objects they find outdoors.

Materials

What you will need for the activity.

- Clipboard or sheet of paper for writing
- Paper with the recording table printed on it
- Pencils
- Optional: magnifying glasses and small bags for collecting items



Instructions

How you will complete the activity.

1. Start by explaining what tally marks are and how they can be used to count objects efficiently.
2. Take the class outside for a nature walk around the schoolyard or nearby park.
3. Give each student a clipboard with the recording table printed on it. Optionally, provide magnifying glasses and small bags for collecting items.
4. Instruct students to look for specific items such as red flowers, round rocks, pine cones, feathers, acorns, and four-leaf clovers. They should use tally marks to record how many of each item they find in the table.
5. Allow students to explore and tally their findings for a set amount of time, like 15-20 minutes.
6. After the exploration, gather the class and have students share their findings. Record the results on a large sheet of paper or a whiteboard using tally marks.
7. Discuss the different quantities of items found and compare results among the students.

Observations Fill in the table below while walking around your natural environment

Item	Tally Marks	Total Count
Red Flowers		
Round		
Pine Cones		
Feathers		
Acorns		
Four-leaf Clovers		
Spider Webs		
Ant Hills		
Animal Tracks		

PREVIEW

Exit Cards

Cut Out

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

Name: _____

Fill in the tally table below

Favourite Subject		
Subject	Tallies	Frequency
Math		
Science		16
English		9
Gym		
Music		24

Name: _____

Fill in the tally table below

Favourite Subject		
Subject	Tallies	Frequency
Math		
Science		16
English		9
Gym		
Music		24

Name: _____

Fill in the tally table below

Favourite Subject		
Subject	Tallies	Frequency
Math		
Science		16
English		9
Gym		
Music		24

Name: _____

Fill in the tally table below

Favourite Subject		
Subject	Tallies	Frequency
Math		
Science		16
English		9
Gym		
Music		24

Survey Using Tally Marks

Directions

Survey your classmates using the statistical question below using tally marks

Statistical Question: What is the most popular pet in our class?

Category	Math	Science	Gym	Art	Social Studies
Tally					
Frequency					

Interpret

What story do the data tell you?

- a) How many classmates participated in the survey? _____
- b) Which pet is the most popular? _____ most popular: _____
- c) What did you learn about the data?

- d) What other pet could you include?

- e) If you asked the rest of your school, which category do you think would be most popular? Explain.

Survey Using Tally Marks

Directions

Create your own statistical question and tally the results

Statistical Question:

Category					
Tally					
Frequency					

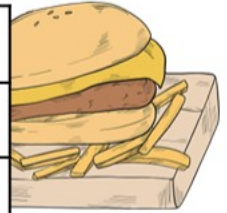
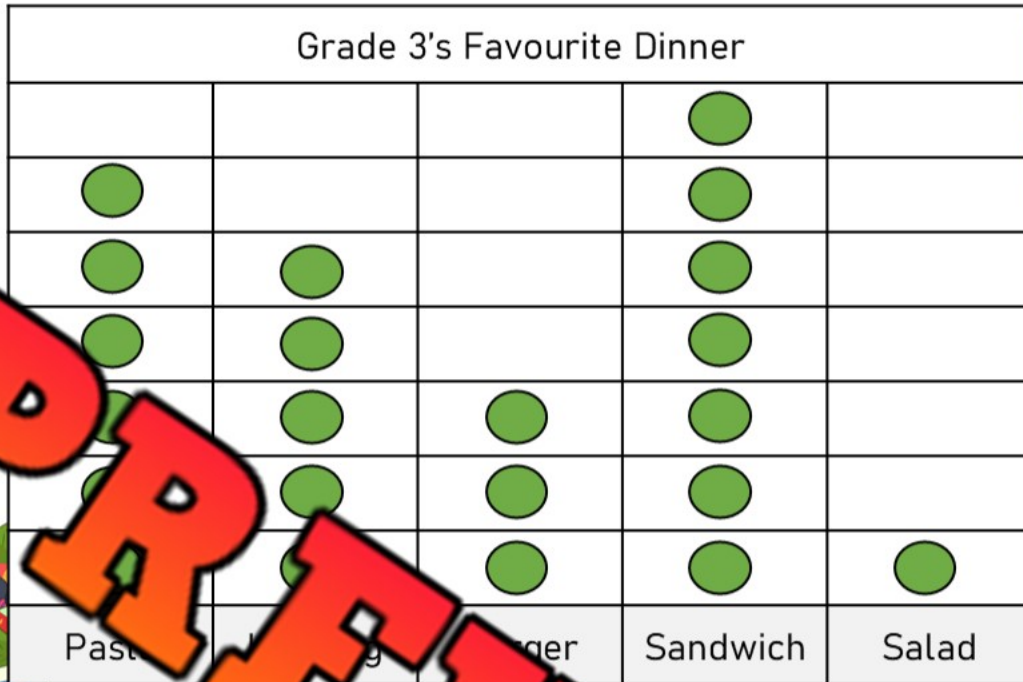
a) How many friends participated in _____

b) What did you learn about the data?

c) Would an "other" category have helped you get better data? Explain.

d) If you asked the rest of your school, which category do you think would be most popular? Explain.

Reading a Line Plot – Favourite Dinner



PREVIEW

Dinner	Pasta	Hot Dog	Hamburger	Sandwich	Salad
Frequency					

Questions Read the line plot and answer the questions.

- a) Write the statistical question for the graph?

- b) Which dinner was the most popular?

- c) Which dinner was the least popular?

- d) How many total people were asked the survey question?

- e) How many more people like hot dogs than salad?

- f) Put the dinner options in order of least popular to most popular.

Exit Cards

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

Name: _____

Read the line plot and answer the questions

Favourite Sport			
○ ○ ○		○ ○ ○	
Soccer	Baseball	Hockey	

Dinner	Soccer	Baseball	Hockey
Frequency			

Name: _____

Read the line plot and answer the questions

Grade 3's Favourite Sport			
○ ○ ○	○ ○	○ ○ ○ ○ ○	
Soccer	Baseball	Hockey	

Dinner	Soccer	Baseball	Hockey
Frequency			

Name: _____

Read the line plot and answer the questions

Grade 3's Favourite Sport			
○ ○ ○	○ ○	○ ○ ○ ○ ○	
Soccer	Baseball	Hockey	

Dinner	Soccer	Baseball	Hockey
Frequency			

Name: _____

Read the line plot and answer the questions

Grade 3's Favourite Sport			
○ ○ ○	○ ○	○ ○ ○ ○ ○	
Soccer	Baseball	Hockey	

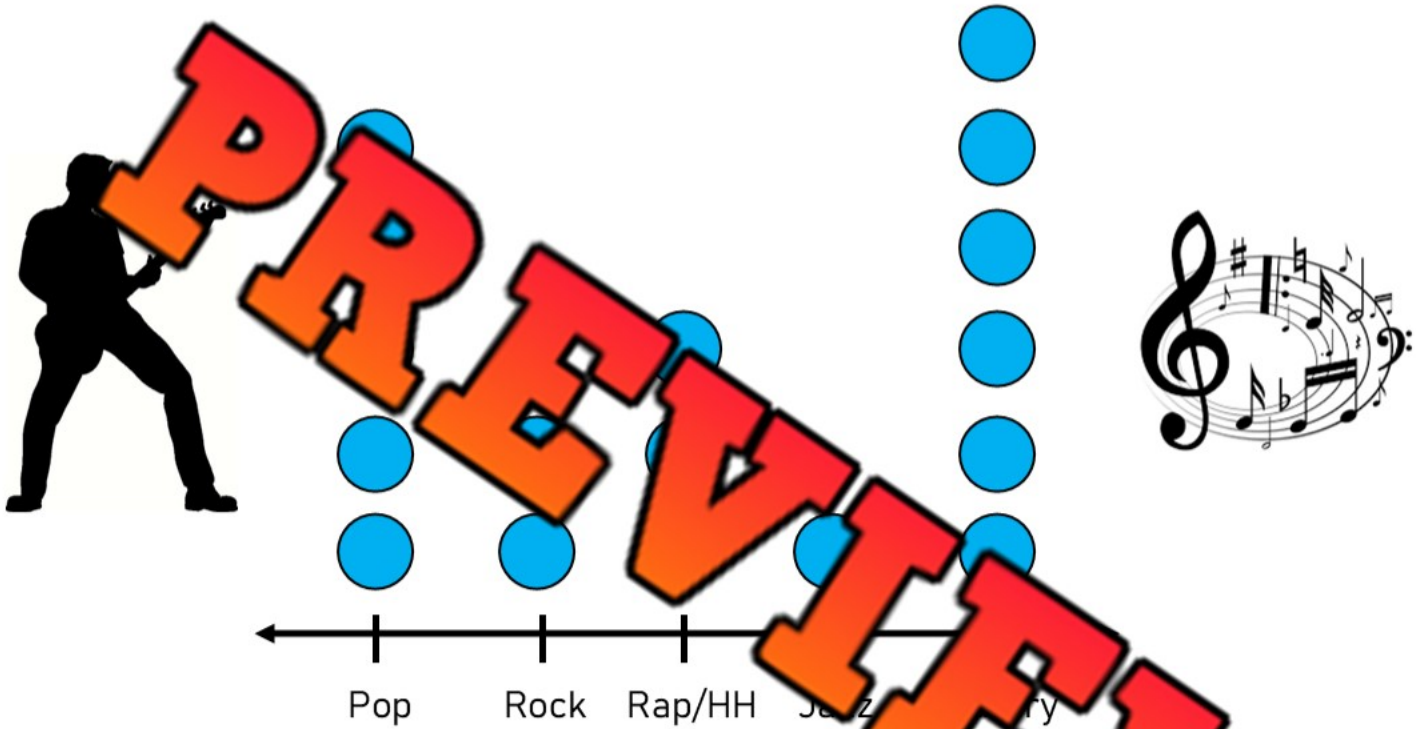
Dinner	Soccer	Baseball	Hockey
Frequency			

Reading a Line Plot – Music Genres

Part 1

Read the line plot below and answer the questions

An online survey asked people what their favourite music genre is. The results have been displayed below in a line plot.



Part 2

Fill in the frequency table below

Category	Pop	Rock	Rap/Hip Hop	Jazz	Country
Tally					
Frequency					

1) Which genre of music is the most popular? _____ Least popular: _____

2) How much more popular is country than rock? _____

3) How many people were surveyed? _____

Creating a Line Plot - Hobby

Questions

Survey your class and use the data in a line plot

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
Tally				
Frequency				

Title: _____

Reading	Computer	Gaming	Playing Outside

Name: _____

Creating a Line Plot

Questions

Survey your class and use the data in a line plot

Statistical Question: _____

Category					
Tally					
Freq					

Title: _____

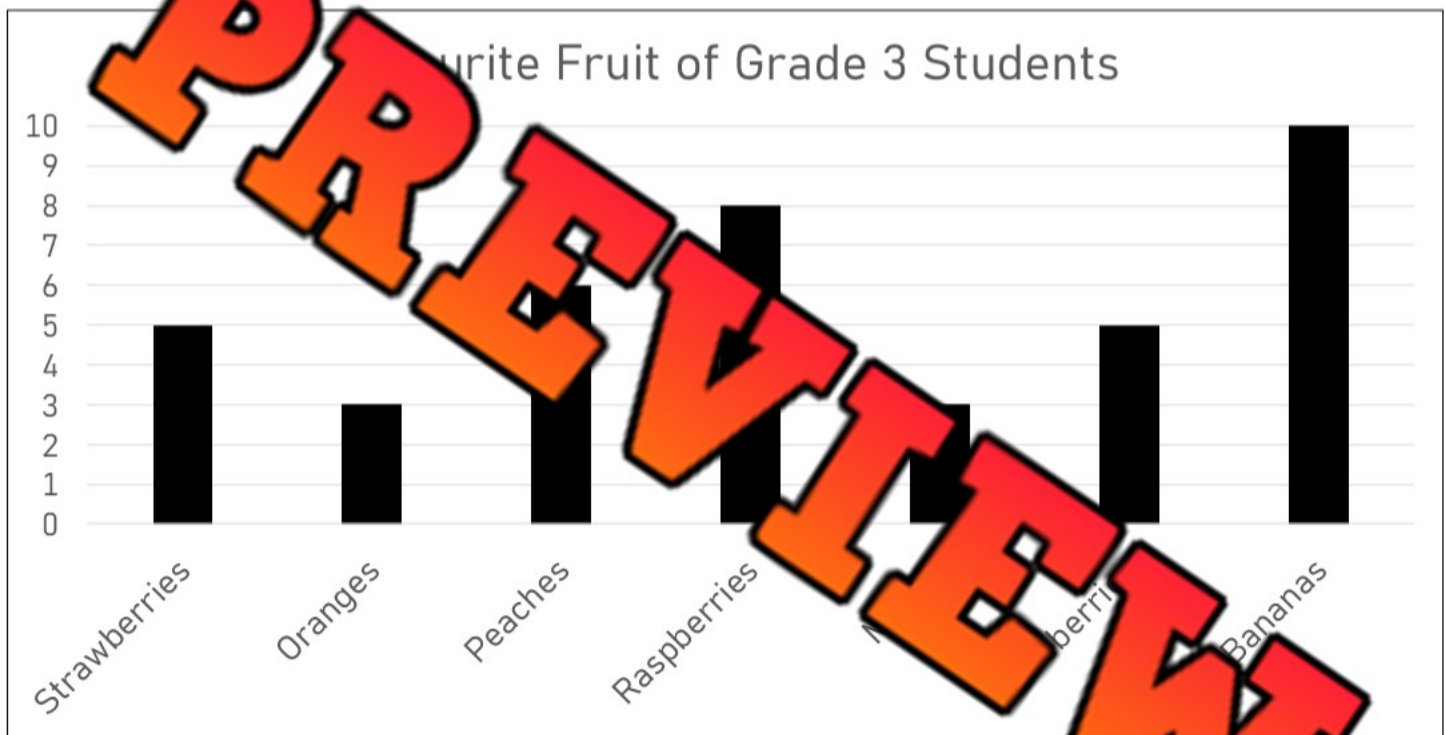


Why We Use Graphs

Luca wanted to know which fruit was most popular in his class. He collected data and displayed it in the bar graph below.



Strawberries	Oranges	Peaches	Raspberries	Mango	Blueberries	Bananas



a) Which fruit was the most popular?

b) How many students liked bananas more than oranges?

c) Does the graph and table show the same data?

Yes

No

d) Which is easier to read, the table or the graph? Which one allows you to find the most popular fruit faster?

Graph

Table

e) What are the benefits of using a graph?

Vertical Bar Graph – Favourite Colour

The students in grade 3 were asked which colour was their favourite. The results of the survey have been displayed in the bar graph below.



a) Which colour was most popular?

b) Which colour was the least popular?

c) How many people chose yellow as their favourite?

d) How many people like red and blue the best?

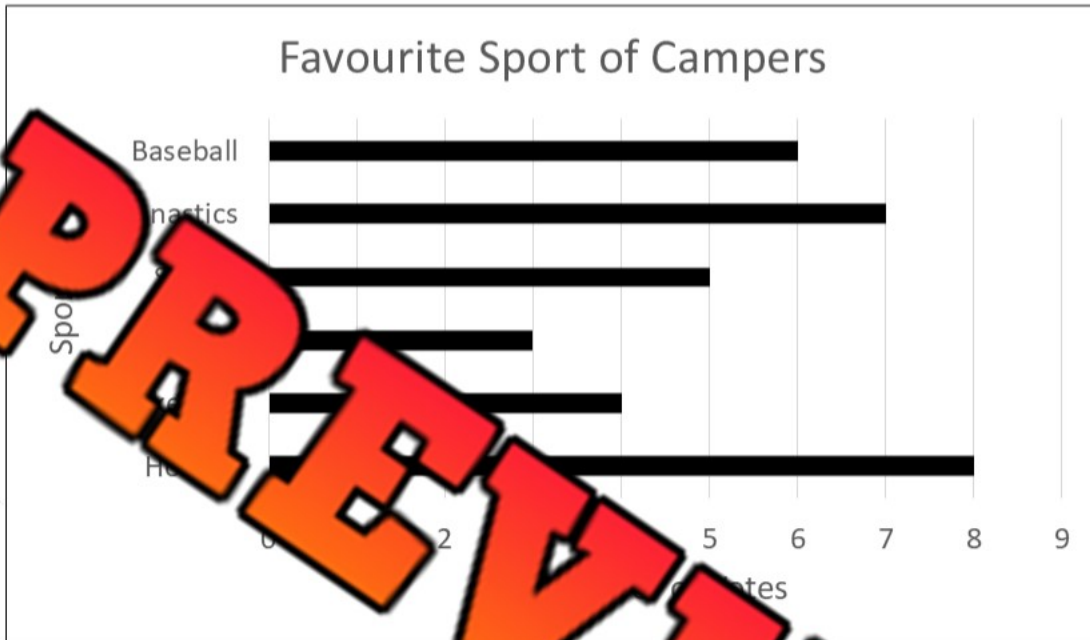
e) How many more people like red than orange?

f) What two colours add up to the amount of red?

g) How many people were surveyed?

Horizontal Bar Graph – Favourite Sport

The kids at camp were asked which sport they liked the best. They surveyed each kid and displayed the results in a horizontal bar graph.



PREVIEW

a) Which sport was most popular?	
b) Which sport was the least popular?	
c) Who is the population that was surveyed?	
d) How many kids liked basketball and soccer the best?	
e) What is the title of the y-axis ↑ ?	
f) What is the title of the x-axis → ?	
g) What is the title of the graph?	
h) How many kids were surveyed?	
i) What is the statistical question for this graph?	

Exit Cards

Cut Out

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

Name: _____



1) Which category of drink is most popular?

2) How many people were surveyed?

Name: _____



1) Which category of drink is most popular?

2) How many people were surveyed?

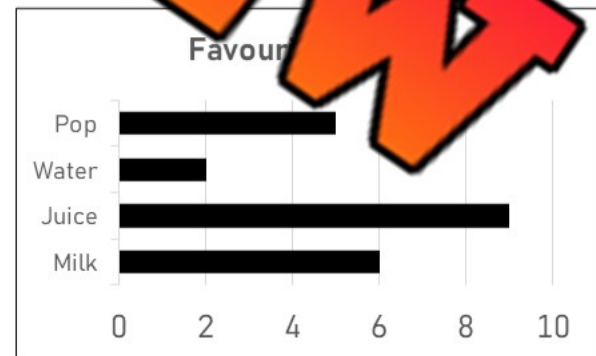
Name: _____



1) Which category of drink is most popular?

2) How many people were surveyed?

Name: _____

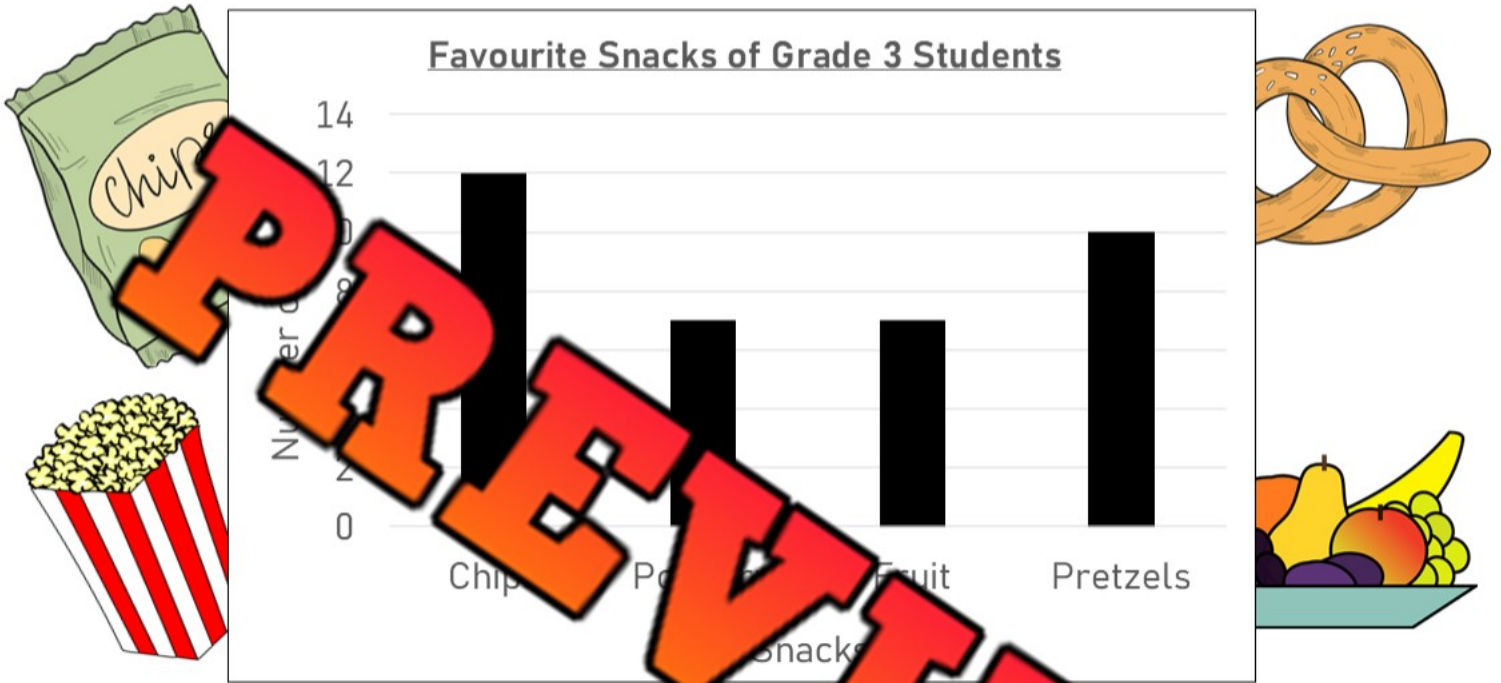


1) Which category of drink is most popular?

2) How many people were surveyed?

Reading a Bar Graph – Favourite Snack

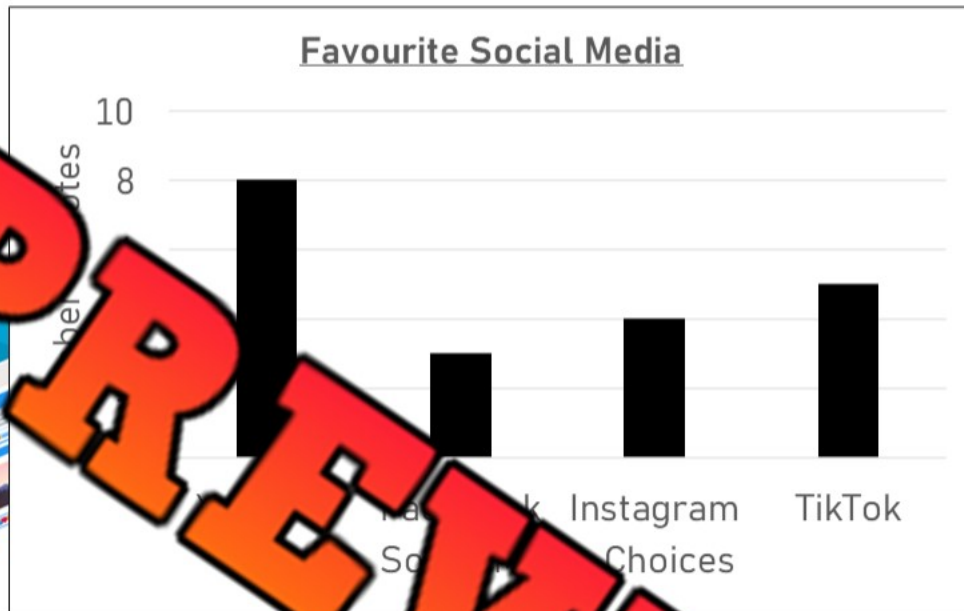
Roger asked his grade 3 classmates what their favourite snack was. He gave them four options. His results are below.



- Which snack was most popular?
- Which snack was the least popular?
- How many more kids chose chips than fruit?
- How many kids liked popcorn and fruit together?
- Roger thinks chips were more popular than popcorn and fruit put together. Is he correct?
- What other snack options could he have included?
- How many kids were surveyed?
- What is the statistical question for this graph?

Surveying a Suitable Representation

Bella wants to know what the most popular social media app is at her school. She decides to ask 20 students from her grade 3 class.



a) Which social media was the most popular?

b) Did Bella find out which social media was the most popular in the whole school? Explain.

c) Who should she have asked if she wanted to know what the most popular social media app was in her entire school?

d) If she only wanted to survey around 20 kids in total, how could she do it so that she still found out what the most popular app was in the whole school?

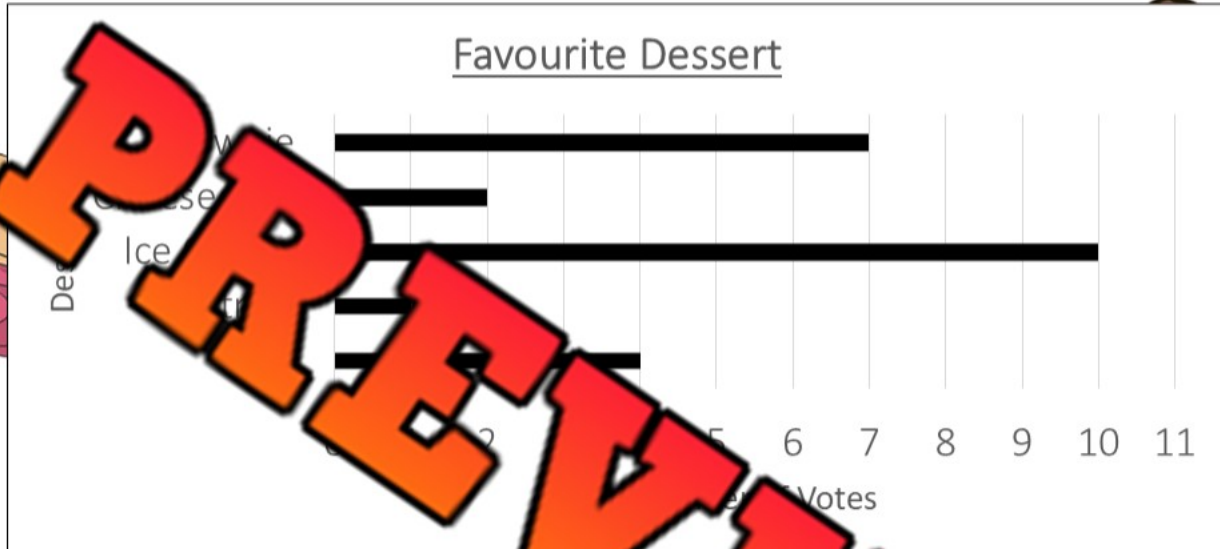
Name: _____

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Surveying a Suitable Representation

Liam is a restaurant owner who wants to find out which dessert is the most popular so he can know what to serve at his restaurant. His restaurant serves mostly seniors who are 65 years old or older.

To collect his data, Liam goes to a skatepark and asks 25 people there. His data has been displayed in a bar graph below.



a) Which dessert should Liam serve at this restaurant according to his data?

b) Did Liam find out which dessert seniors preferred? Why or why not?

c) Where could Liam have gone to complete his survey? Why would your choice of location be better?

d) Why is it important to pay attention to who you are surveying when you are collecting data?

Name: _____

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Sampling a Population

What is a Population?

A **population** is all the people that fit a particular description. For example, students in Alberta is a population that would include all the students in Alberta. Another example could be grade 3 students at your school. It might be just your class, or other grade 3 classes in your school as well.



When we want to learn more about a population, we can survey them. This means we ask them questions. The answers we receive will be data we can use to learn more about the population.

Sampling a Population

When we want to know something about a population, it is easier to ask a sample of the population instead of asking everyone within that population. For example, if we wanted to know which drink the kids in your school liked the best, we could ask 5 students from each class, instead of asking every single student.



Sampling a population saves us a lot of time and money. It works well if we sample the population correctly. When we choose just a sample of the population, we should do it randomly. A bad sample would be only asking 5 friends in each class or only asking 5 girls in each class.

Sampling a Population

Questions

Write a sample of the population that would not be a good representation of the population

Population	Survey Question	Bad Sample
Pet Owners in Alberta	What is the best pet?	Cat owners in Alberta
Parents	Which sport is best for kids?	Parents at a hockey arena
Students in Alberta	Which city is the best?	
University Students in Alberta	Which university is the best?	
Kids who own video games	Which video game system is the best?	
Kids in Alberta	Which sports store is the best?	
Teachers in Alberta	Which school is the best in Alberta?	

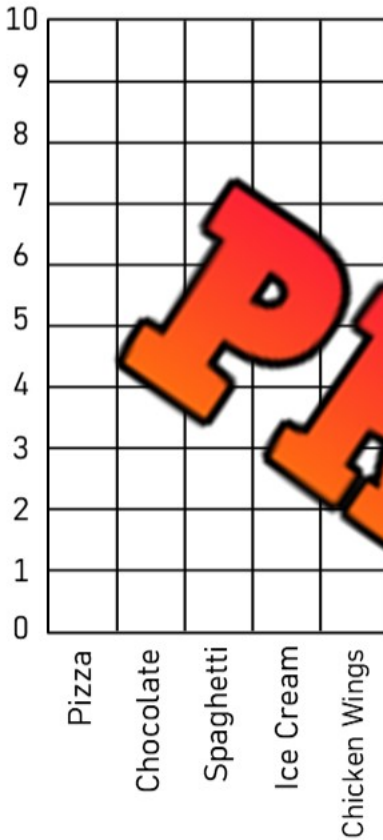
Questions

Write a good sample of the population

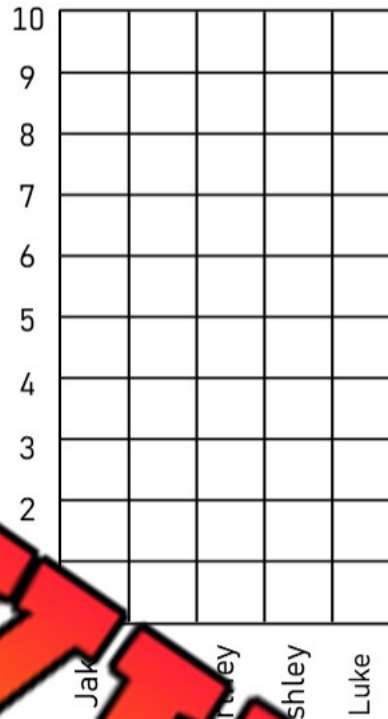
Population	Survey Question	Good Sample
Students at your school	Best subject in the school	
Teachers in your city	Favourite grade to teach	
Kids between 8-12 years old	Favourite sport	

Drawing Bar Graphs

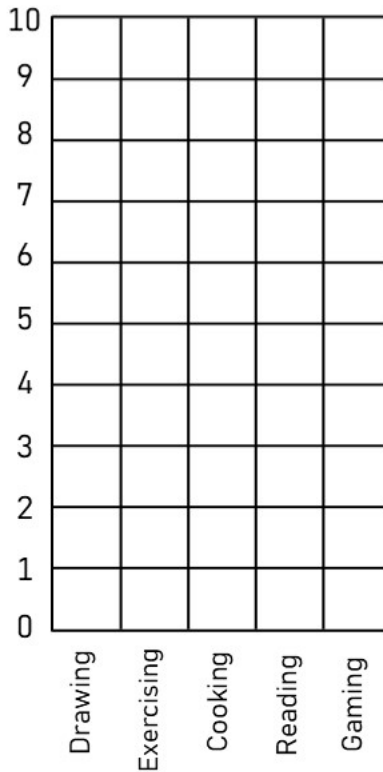
Questions Draw the bars for each of the bar graphs below



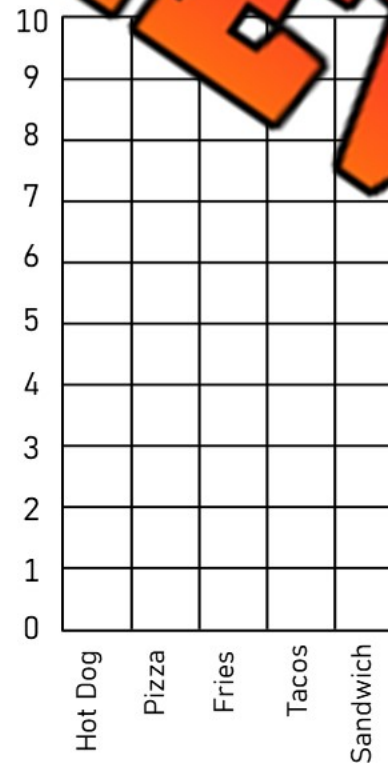
Favourite Food	# of votes
Pizza	9
Chocolate	4
Spaghetti	6
Ice Cream	5
Chicken Wings	3



Player	# of points
Jake	3
Nathan	1
Courtney	7
Ashley	6
Luke	10



Favourite Hobby	# of votes
Drawing	9
Exercising	5
Cooking	5
Reading	8
Gaming	2

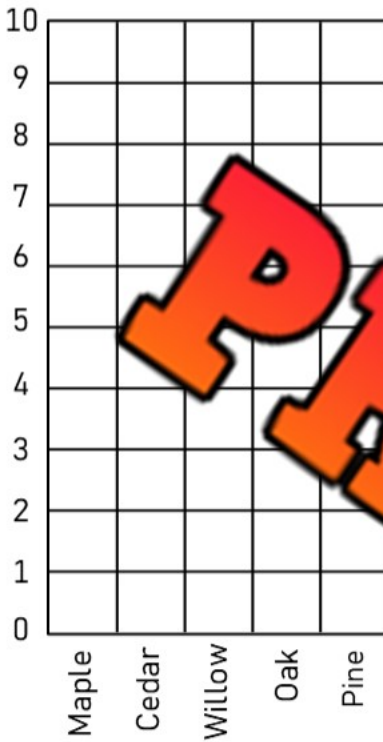


Favourite Food	# of votes
Hot Dog	1
Pizza	3
Fries	5
Tacos	7
Sandwich	9

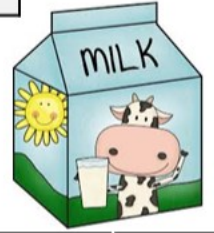
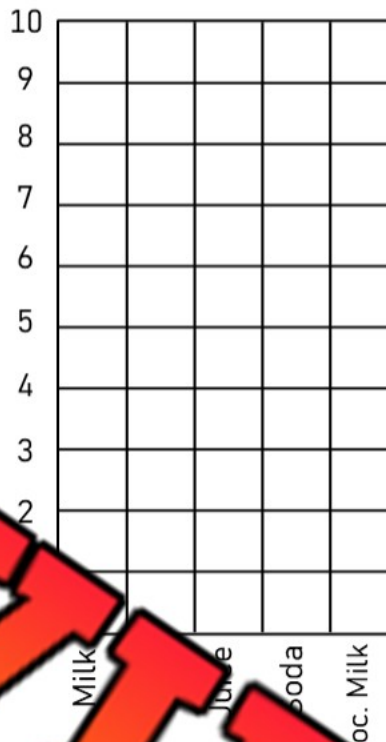
PREVIEW

Drawing Bar Graphs

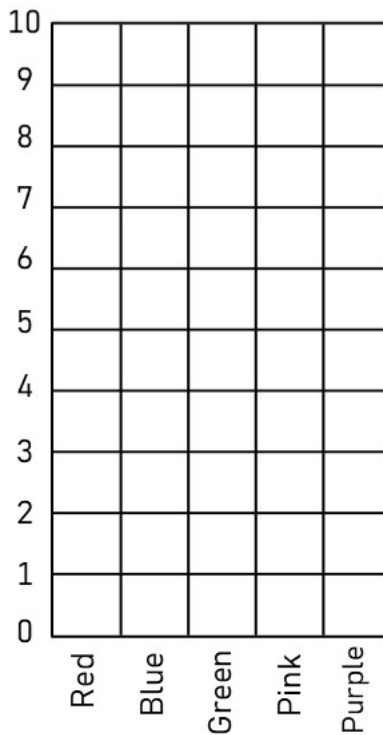
Questions Draw the bars for each of the bar graphs below



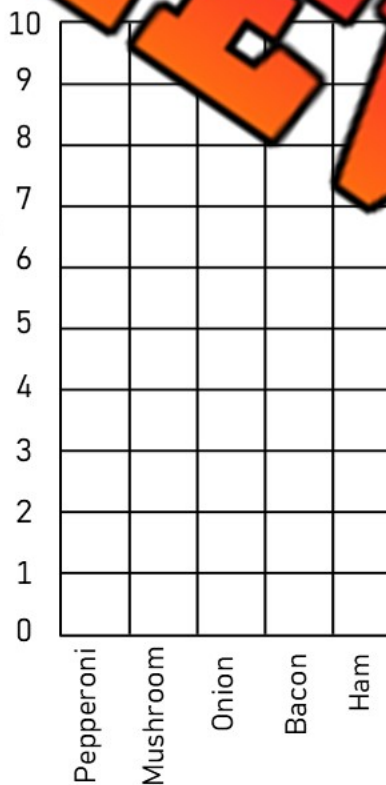
Favourite Tree	# of votes
Maple	2
Cedar	5
Willow	1
Oak	10
Pine	10



Favourite Drink	# of points
Milk	3
Water	6
Juice	2
Soda	8
Choc. Milk	7



Favourite Colour	# of votes
Red	6
Blue	7
Green	5
Pink	6
Purple	9



Favourite Pizza Topping	# of votes
Pepperoni	6
Mushroom	8
Onion	5
Bacon	3
Ham	1

PREVIEW

Exit Cards

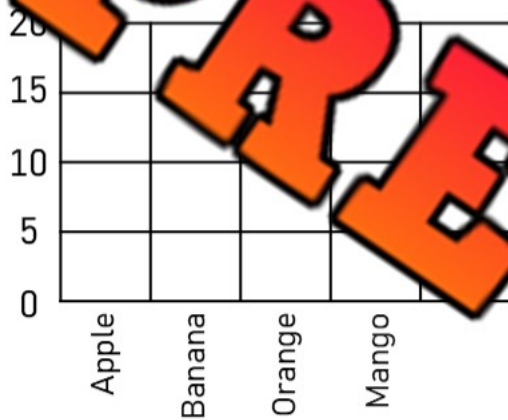
Cut Out

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

Name: _____

Draw the bars for the bar graphs below.

Fruit	Apple	Banana	Orange	Mango
Votes	10	15	5	



Name: _____

Draw the bars for the bar graphs below.

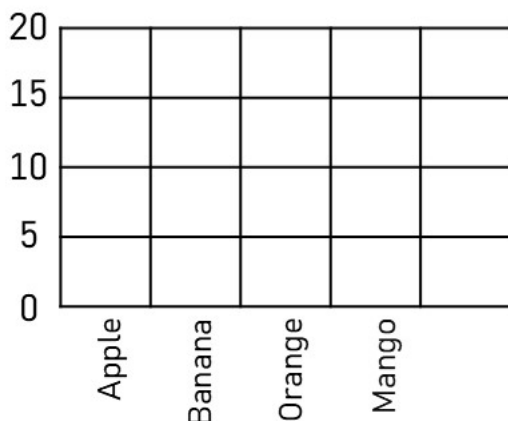
Fruit	Apple	Banana	Orange	Mango
Votes	20	10	15	5



Name: _____

Draw the bars for the bar graphs below.

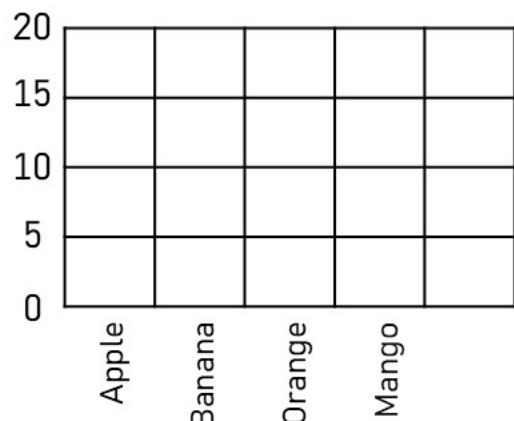
Fruit	Apple	Banana	Orange	Mango
Votes	20	10	15	5



Name: _____

Draw the bars for the bar graphs below.

Fruit	Apple	Banana	Orange	Mango
Votes	20	10	15	5



Collecting Data

Directions

Create your own statistical question and survey your classmates

Statistical Question

Example: Which flavour of ice cream is most popular among grade 3s?

Category				
Tally				
Frequency				

Interpret

What did you learn from your data?

Interpreting Your Survey Results

- How many people did you survey? _____
- Which category was the most popular? _____
- Which category was the least popular? _____
- If you asked your entire school, which category do you think would win? Explain.

- Did any of the survey results surprise you?

I'm surprised that _____



Name: _____

Creating a Bar Graph

Use the data you collected to plot your graph. Remember the following labels:

X axis label

Y axis label

Title

Scale

Categories

PREVIEW

Title: _____



Representing Second-Hand Data in a Bar Graph

Directions

Create a bar graph that represents the second-hand data

Statistical Question: How many wins did the Calgary Flames have in the playoffs from 2018 to 2022?



Years	2018	2019	2020	2021	2022
Frequency	0	1	5	0	5

PREVIEW

Title _____

What story does the graph tell us? What did you learn about Calgary's performances the last 5 years?

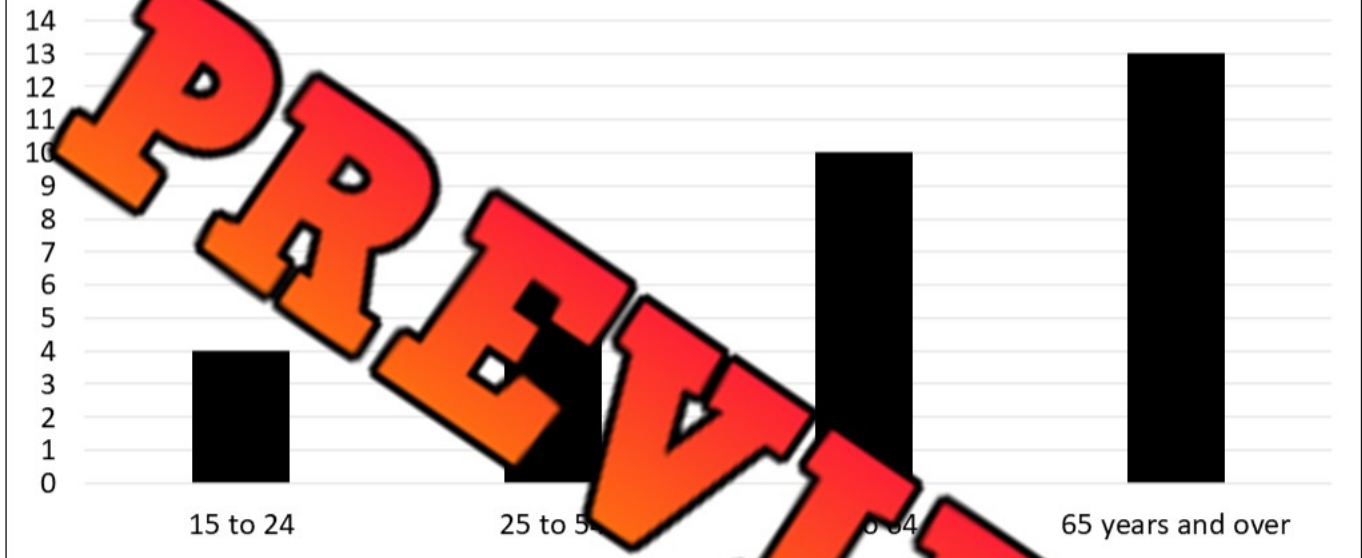
First Nations Graph

Statistical Question

What percentage of First Nation members speak a First Nation language?



Percentage of First Nation Members That Speak a First Nation Language Well



Interpret

What did you learn from the graph?

Source: Statistics Canada

1) Which age group of First Nation members has more people that speak a First Nation language?

2) Which age group of First Nation members has the least percentage of people that speak a First Nation language?

3) Are younger or older First Nation members more likely to speak a First Nation language?

4) Why do you think older First Nation members are more likely to speak a First Nation language?

Inuit Living in Canada

Statistical Question

Which 5 provinces/territories do most Inuit people live in?



Number of Thousands of Inuit People Living in the Provinces/Territories of Canada



Interpret

What did you learn from the graph?

1) Where do most Inuit people live in Canada?

2) What surprised you about the data?

3) Where in Canada do most Inuit people live – in the north or south? Where do you think they live in provinces – the northern or southern regions?

Unit Test – Data Literacy

Part 1

Count the tally marks

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Part 2

Use the data to answer the questions

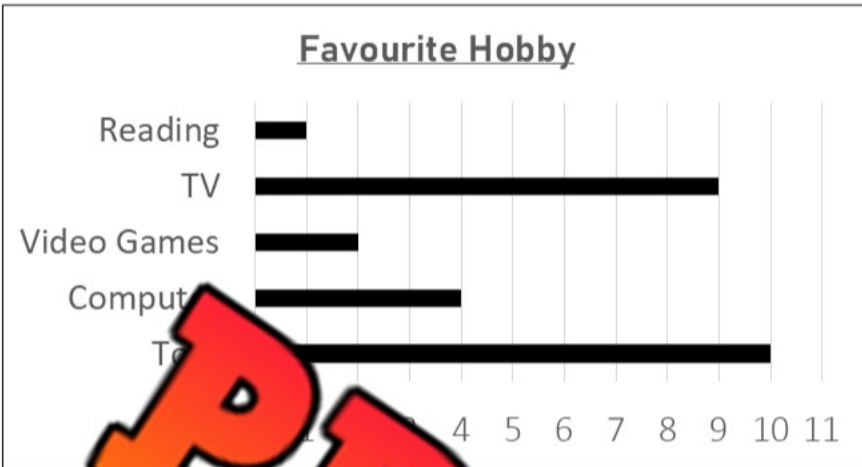
Grade 3's Favorite Drinks

			●	
			●	
		●	●	
		●	●	●
	●	●	●	●
●	●	●	●	●
Tea	Water	Pop	Juice	Milk

Drink	Frequency
Tea	
Water	
Pop	
Juice	
Milk	

- Which drink was the most popular?
- Which drink was the least popular?
- How many total people were asked the survey question?
- What was the statistical question?

The grade 3s were asked which hobby was their favourite. The results have been graphed below.



a) Which hobby was the most popular?

b) Which hobby was the least popular?

c) How many ... more than reading?

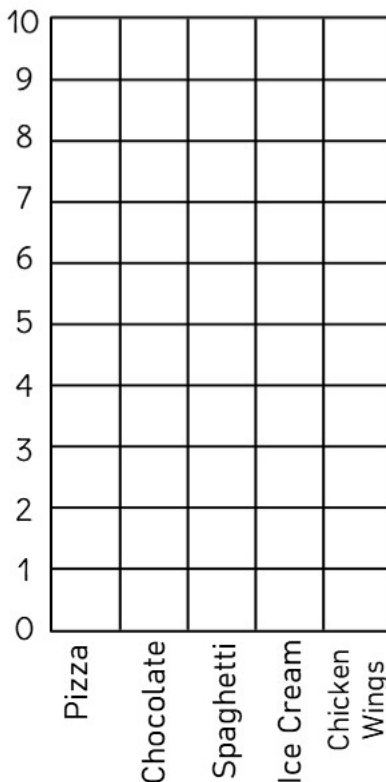
d) How many students were surveyed?

Part 3

Draw the bars for each of the bars ...



Favourite Food	# of votes
Pizza	4
Chocolate	6
Spaghetti	2
Ice Cream	7
Chicken Wings	10



Name	# of points
Jake	3
Nathan	5
Courtney	1
Ashley	8
Luke	9

