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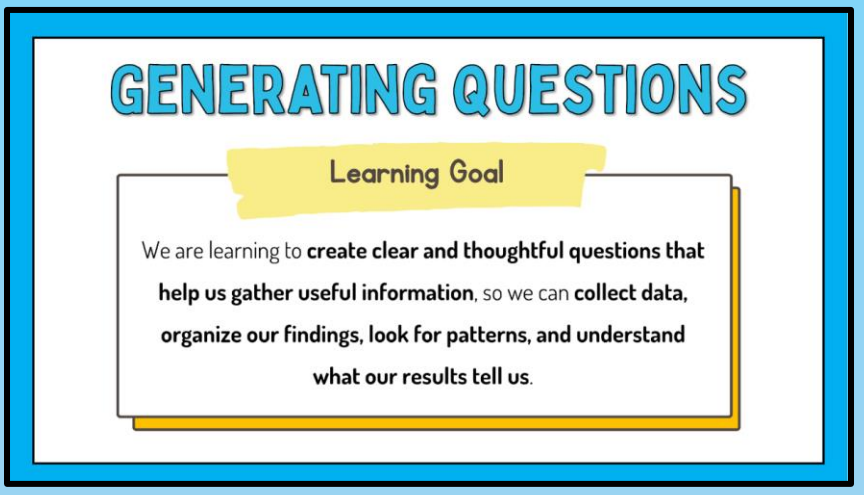
Google Slides Lessons Preview

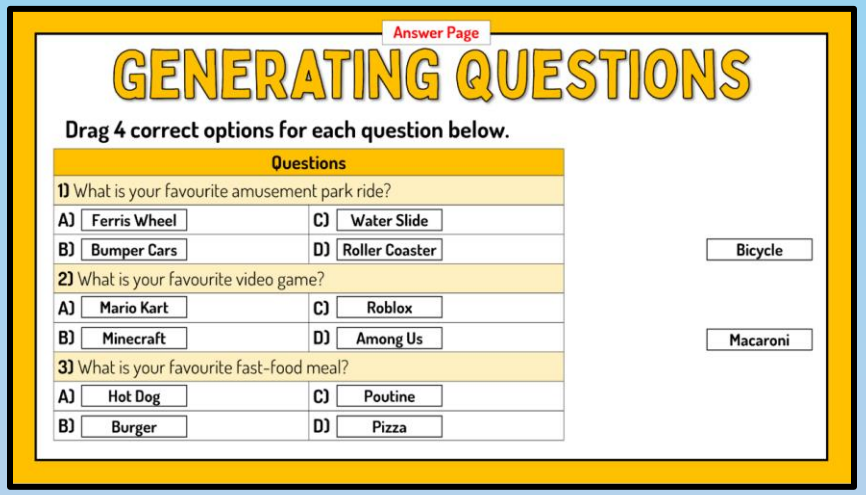
Manitoba Math Curriculum
Statistics– Grade 3

3-Part Lesson Format

Part 1 – Minds On!

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



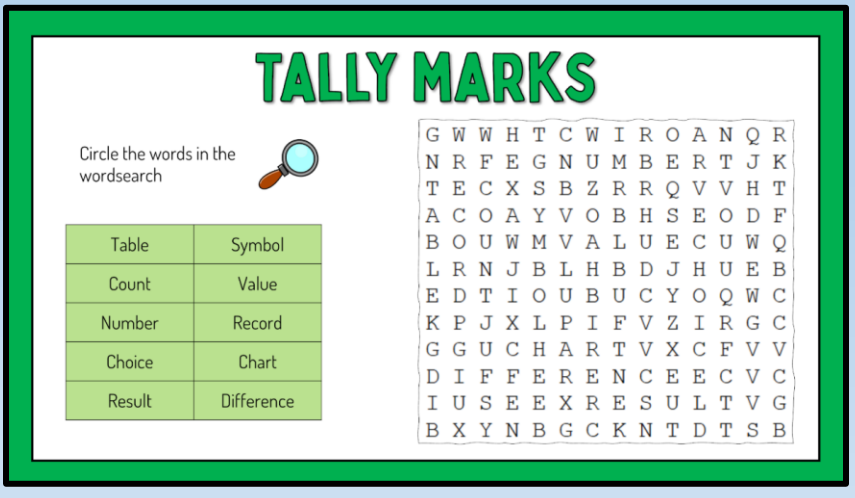


Part 2 – Action!

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

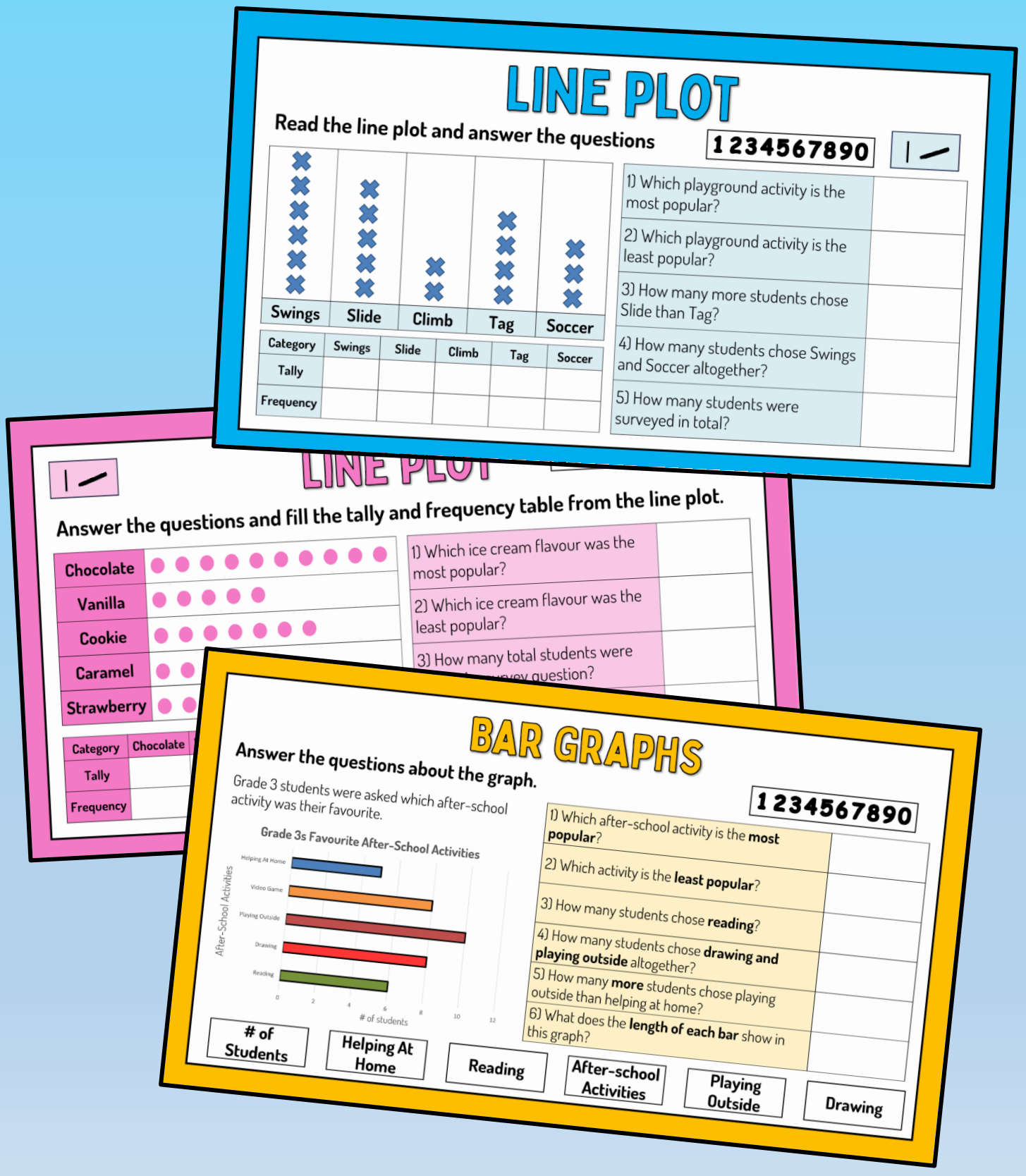
Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!



Manitoba Math Curriculum
Statistics– Grade 3

Manitoba Math Curriculum Statistics– Grade 3



Name: _____ 3

Curriculum Connection
1

Tally Marks

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

Part 1 Count the tally marks

_____	_____	_____	_____	_____

Part

3 =	7 =	5 =
12 =	15 =	18 =
26 =	31 =	

Part 3 Which is greater? Use the ‹ › or =

8 _____	13 _____	14 _____

Name: _____ 4

Curriculum Connection
1

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	𝍸 |	𝍸 |||	𝍸	𝍸 ||
Frequency				

a) How many ... the class? _____

b) Which sport is the ... ? _____

c) Which sport was the least ... _____

d) How many more people liked hocke... basket... _____

Part 2

Fill in the table by drawing the ... mark... the frequency

2. Henry asked his friends what food they liked the bes... to use ... marks, but he wrote down the frequency. Help him fill in the table by dra... tally ...

Category	Pizza	Sandwich	Hot Do...	...rries
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: _____ 5

Curriculum Connection
1

Survey Using Tally Marks

Part 1 Survey your classmates using the survey question below using tally marks

Survey Question: What is your favourite subject in school?

Category	Math	Science	Gym	Art	Social Studies
Tally					
Frequency					

a) How many friends participated in the survey? _____

b) Which subject was most popular: _____ Least popular: _____

c) What did you learn about the data?

_____

_____

Part 2 Create your own survey question and collect the results

Survey Question: _____

Category					
Tally					
Frequency					

a) How many friends participated in the survey? _____

b) What did you learn about the data?

_____

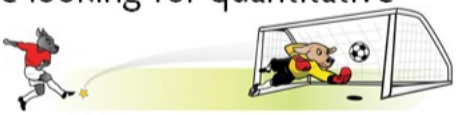
_____

Name: _____ 6

Curriculum Connection
1

Collecting Data - Quantitative

When we survey people, we don't always use categories. Sometimes we ask an open-ended question that could lead to many different answers. When we are looking for quantitative data, we are asking a question that has a numbered answer.



For example: How many points did you score in your last 5 games of the season?

Athlete 1	Athlete 2	Athlete 3	Athlete 4	Athlete 5
5	8	6	2	4

Data set: 5, 8, 6, 2, 4

Part 1 Ask a question to 6 classmates that could have different numbered answers

Survey Question	
Example: How many books did you read this week?	_____
Data Set	_____, _____, _____, _____, _____

Part 2 What did you learn from your survey data?

1. How many people did you survey? _____

2. Were there any answers that were the same? _____

3. What did you learn from the survey data?

I learned that _____

_____

_____

Name: _____ 8

Curriculum Connection
1

Creating Lists

Part 1 Ask your classmates what their favourite chocolate/candy is? Write them below

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Part 2 Sort th… into … hocolate and Candy

Chocolate	Candy

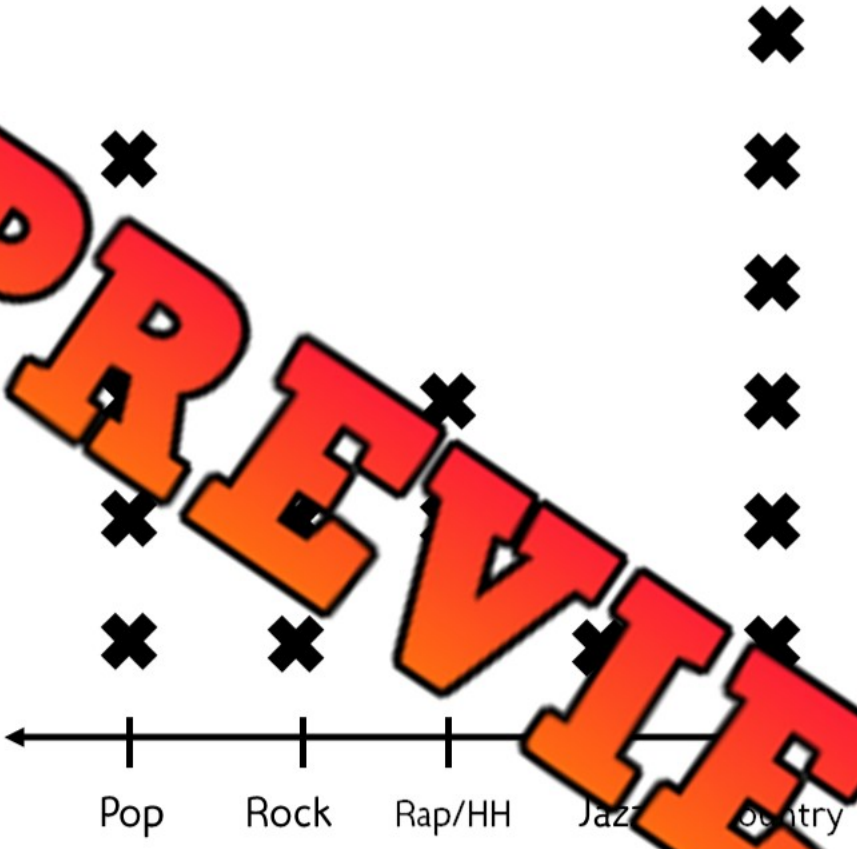
Name: _____ 9

Curriculum Connection
1

Interpreting a Line Plot

Part 1 Read the line plot below and answer the questions

An online survey asked people what their favour music genre is. The results have been displayed below in a line plot. Each X represents one person's vote.



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? _____

Name: _____ 10

Curriculum Connection
1

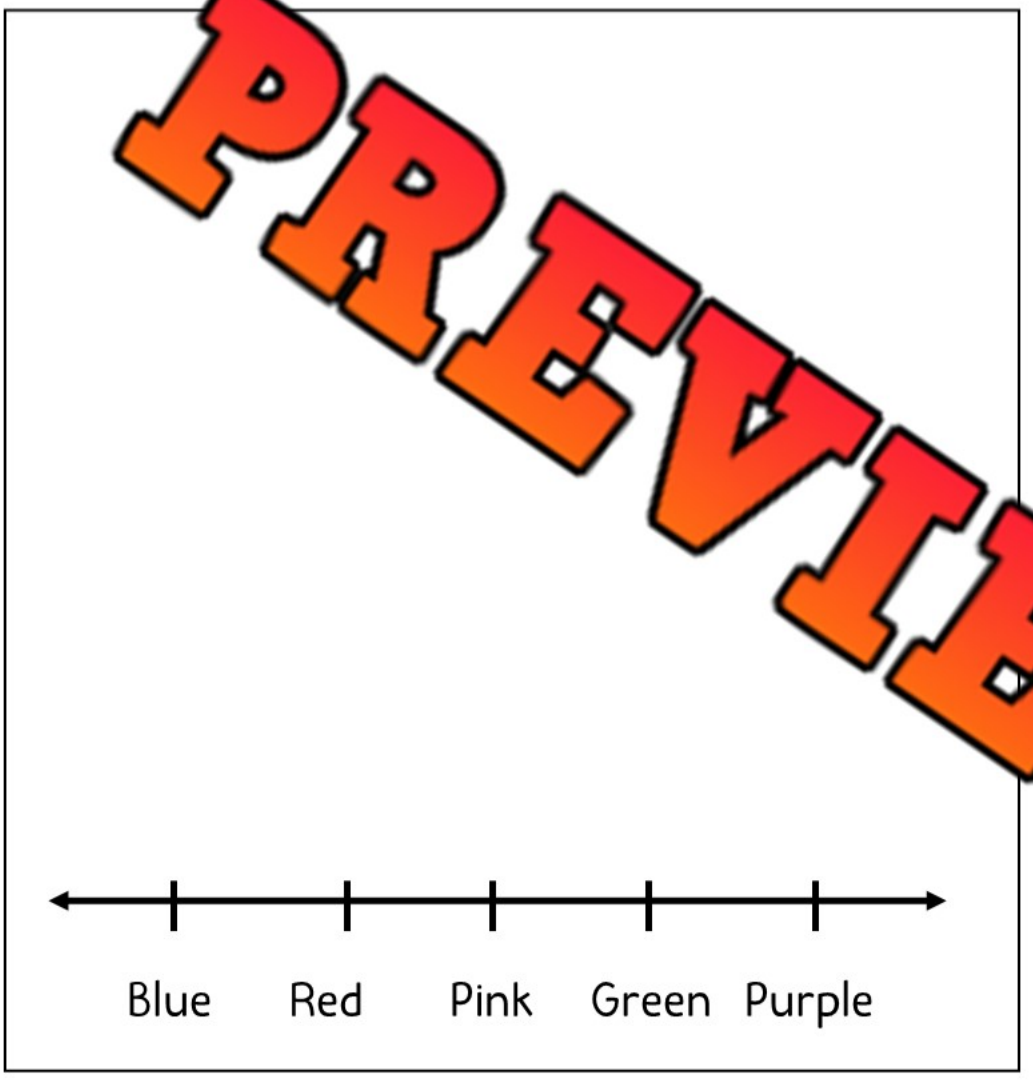
Creating a Line Plot - Colours

Questions

Survey your class and use the data in a line plot

Survey Question: What is your favourite colour?

Instructions – When a classmate tells you their favourite colour, put a dot on the line in the right spot (for fun, try to use the same colour they told you).



LEGEND

Blue =

Red =

k =

Gr

Purple =

Questions

1) Which colour is the most popular? _____ Least popular: _____

2) How does a line plot make it easy to understand the data quickly?

_____

_____

Name: _____ 13

Curriculum Connection
1

Horizontal Line Plot - Food

Questions

Survey your class and use the data in a line plot

Survey Question: What is your favourite food?

Instructions – When a classmate tells you their favourite food, put a tally in the frequency table below. After you've completed the survey, graph the results on the line plot.

Category					
Tally					
Frequen					

_____ _____ _____ _____ _____

Questions

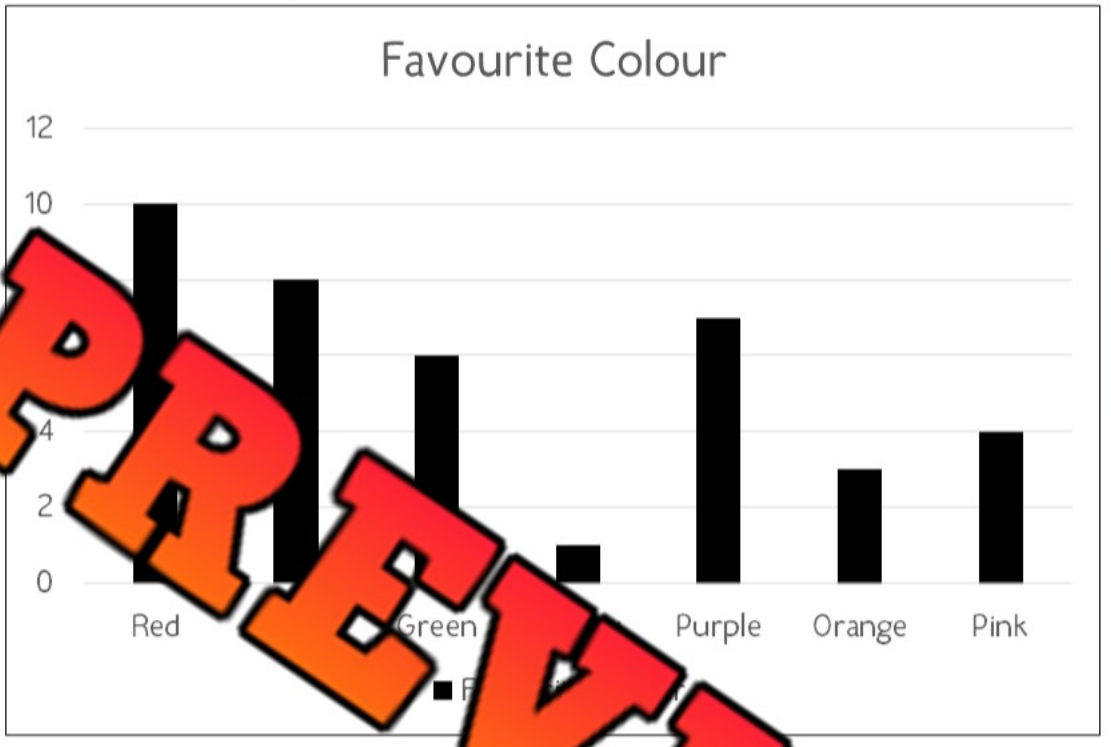
1. What is the most popular food? _____ Least popular? _____
2. What did you learn about your class? _____

Name: _____ 14

Curriculum Connection
2

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.



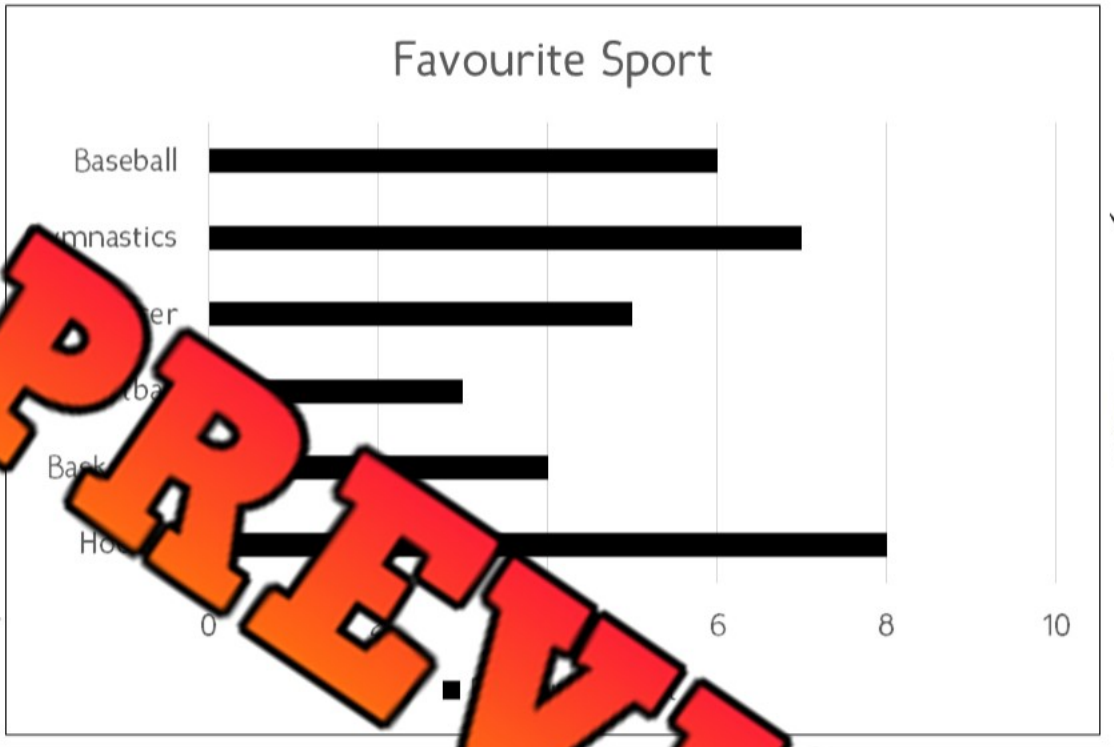
a) Which colour was most popular?	_____
b) Which colour was the least popular?	_____
c) How many people chose yellow as their favourite?	_____
d) How many people liked red and blue the best?	_____
e) How many more people liked red then orange?	_____
f) What two colours add up to the amount of red?	_____
g) How many people were surveyed?	_____

Name: _____ 15

Curriculum Connection
2

Horizontal Bar Graph - Favourite Sport

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



a) Which sport was most popular?	_____
b) Which sport was the least popular?	_____
c) How many people chose gymnastics as their favourite?	_____
d) How many kids liked basketball and soccer the best?	_____
e) How many kids liked hockey more than football?	_____
f) What two sports add up to the total for hockey?	_____
g) How many kids were surveyed?	_____

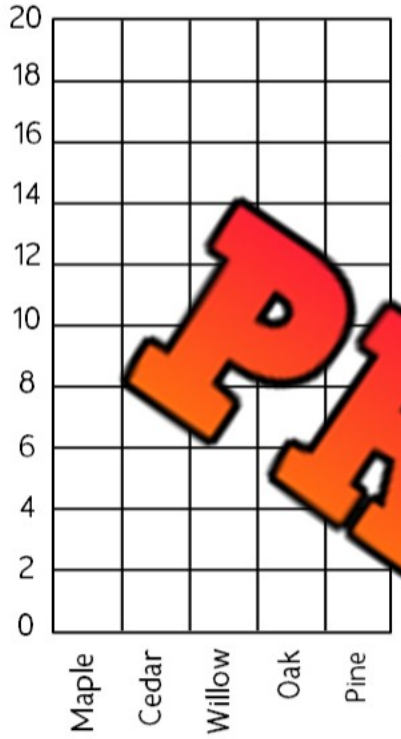
Name: _____ 17

Curriculum Connection
2

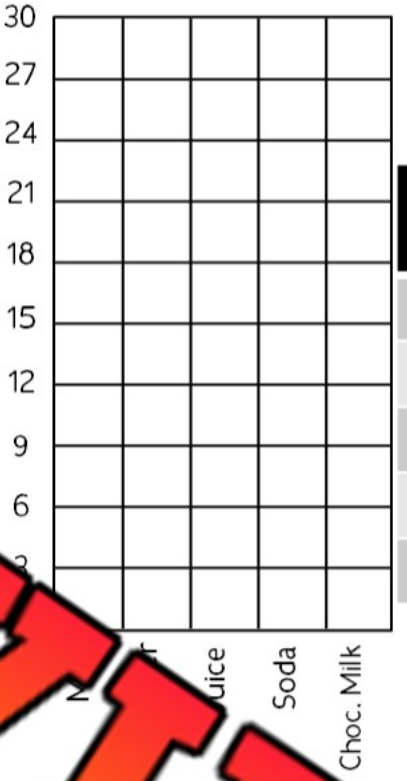
Drawing Bar Graphs

Questions

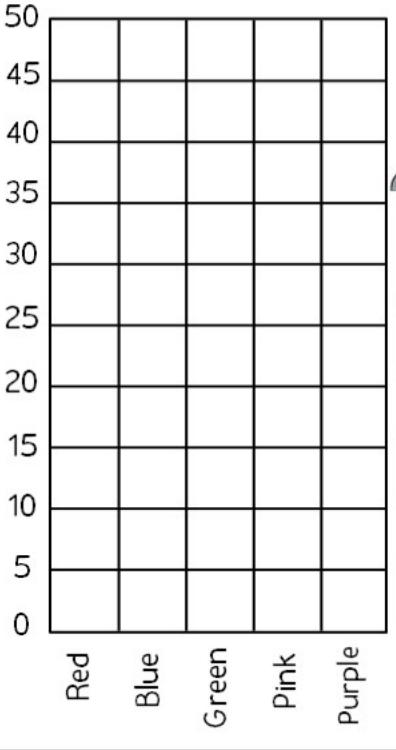
Draw the bars for each of the bar graphs below



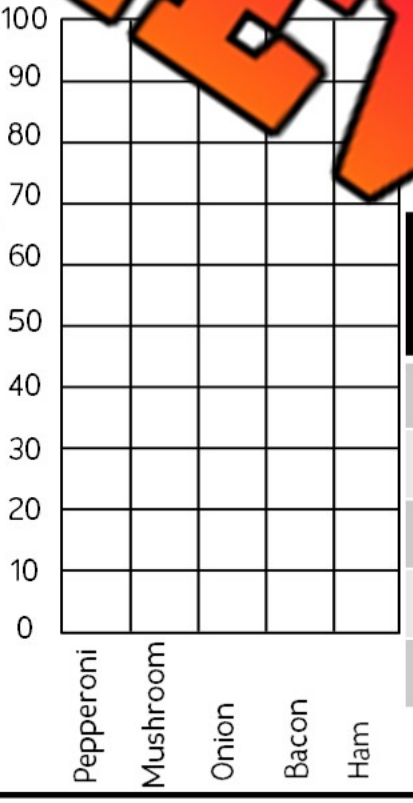
Favourite Tree	# of votes
Maple	8
[illegible]ar	11
[illegible]v	14
[illegible]ak	[illegible]
[illegible]ne	[illegible]



Favourite Drink	# of points
Milk	9
Water	3
Juice	16
Soda	21
Choc. Milk	25



Favourite Colour	# of votes
Red	40
Blue	30
Green	15
Pink	8
Purple	20



[illegible]ourite Pizza Topping	# of votes
Pepperoni	80
Mushroom	40
Onion	30
Bacon	60
Ham	25

Name: _____ 18

Curriculum Connection
2

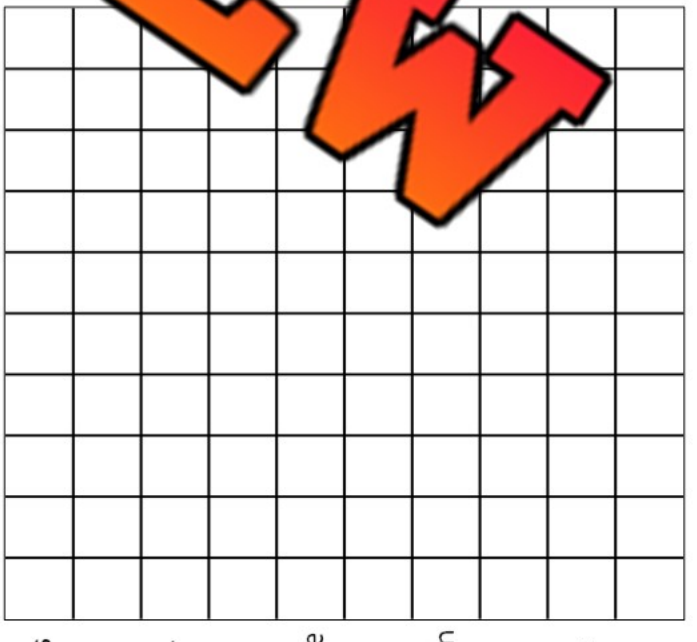
Creating Scale

When you create a scale for your graph, you need to look at the data so you can decide what to go up by. The goal is to create a graph that will fill the graph area.

Step 1: Look at the data. Find the lowest and highest numbers.
Step 2: Count how many lines you have to plot your data.
Step 3: Decide what to go up by to ensure you have enough space to plot ALL the data.

Favourite Dessert	# of votes
Brownie	14
Ice Cream	12
Cookie	2
Donut	16
Pudding	6

Favourite Transportation Method	# of votes
Bus	5
Car	15
Airplane	30
Train	25
Boat	40

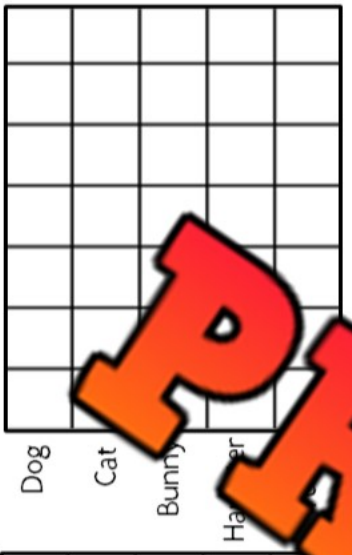


Name: _____ 19

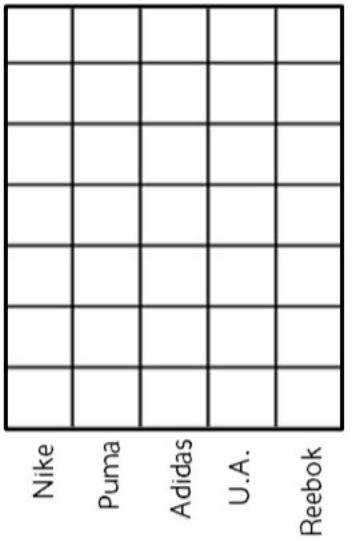
Curriculum Connection
2

Creating Scale

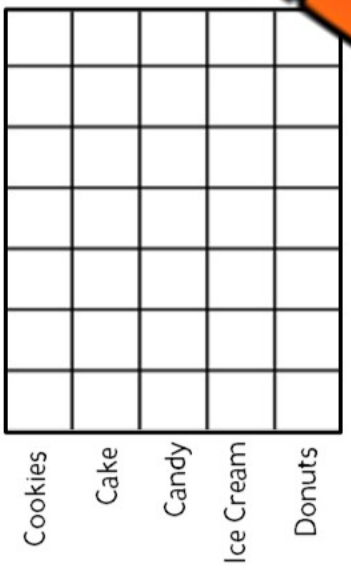
Questions Read the numbers and decide which scale to use. After that, draw your bar graphs.



Pets	Votes
Dog	8
Cat	14
Bunny	2
Hamster	6
Turtle	10

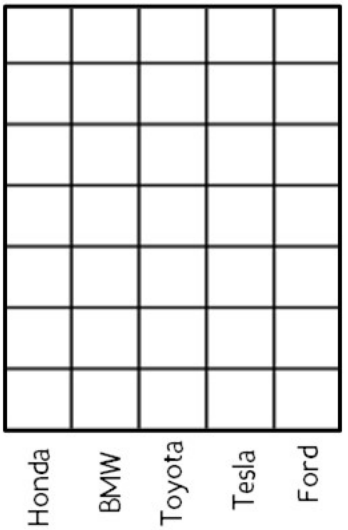


Brand	Votes
Nike	7
Puma	2
Adidas	4
Under Armour	5
Reebok	3

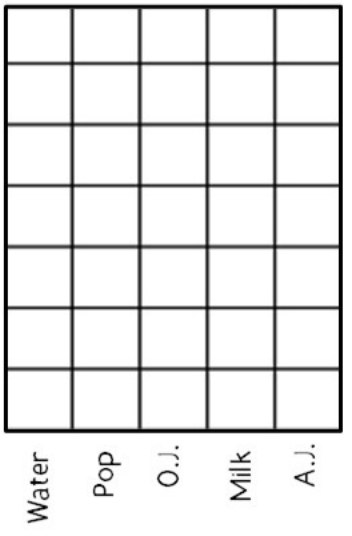


Cake	
Candy	
Ice Cream	15
Donuts	18

Subject	Votes
Math	20
Science	30
Gym	70
Art	50
[illegible]nguage	40



Cars	Votes
Honda	40
BMW	100
Toyota	60
Tesla	80
Ford	20



Drinks	Votes
Water	200
Pop	500
Orange Juice	400
Milk	300
Apple Juice	600

Name: _____ 20

Curriculum Connection
1

Collecting Data - Qualitative

Survey Question Collect data by asking your classmates your survey question

When we collect qualitative data, we are asking a survey question that results in a category being chosen. Qualitative data uses words as the categories, and quantitative data uses numbers.

Examples of survey questions		Categories
- What is your favourite animal?	-----→	Dog, cat, bunny, horse, lion
- What is your favourite sport?	-----→	Basketball, hockey, baseball, soccer, football
- What [illegible] eyes do you have?	-----→	Blue, brown, green, turquoise, other

Surv[illegible]n _____

Exampl[illegible]*What is* favourite c[illegible] _____

Categories				
Tally				
Frequency				

Interpreting Your Survey Results

1. How many people did you survey? _____

2. Which category was the most popular? _____

3. Which category was the least popular? _____

4. If you asked your entire school, which category do you think would win? Explain.

_____

5. Did any of the survey results surprise you?

I'm surprised that _____

_____

Name: _____ 21

Curriculum Connection
2

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

Name: _____ 22

Curriculum Connection
1

Collecting Data - Quantitative

When we collect quantitative data, we are asking a survey question that results in a numbered answer. For example: "How many pets do you have?"

Example:
"How many hours do you watch TV a day?"

Survey Question | Collect data by asking your classmates your survey question

Survey [illegible]n *Exam[illegible] bo[illegible]* did yo[illegible] this we[illegible]	_____ _____				
Categories					
Tally					
Frequency					

Interpreting Your Survey Results

1. How many people did you survey? _____
2. Which number/number range was the most popular? _____
3. Which number/number range was the least popular? _____
4. If you asked your entire school, which number/number range do you think would win? Explain.

_____

5. Did any of the survey results surprise you?

I'm surprised that _____

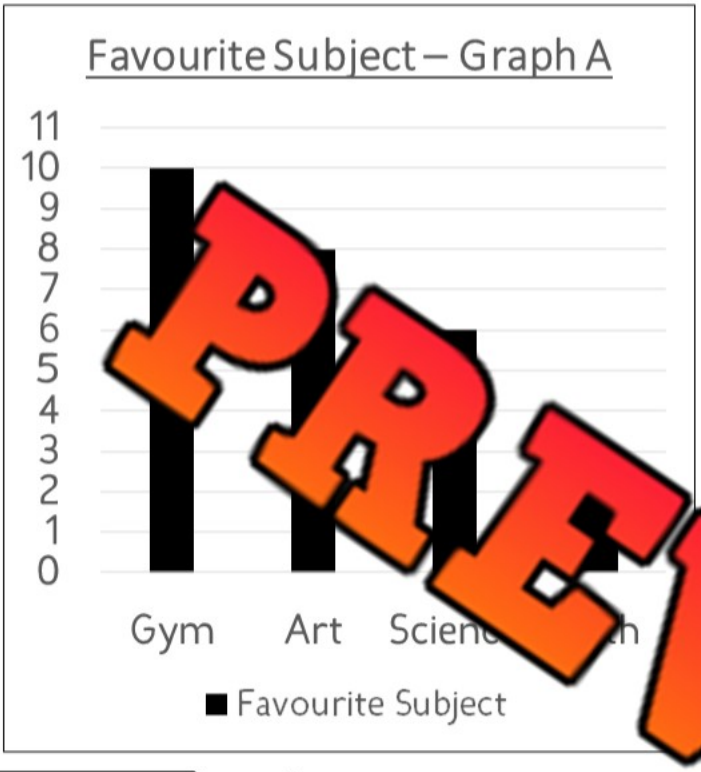
_____

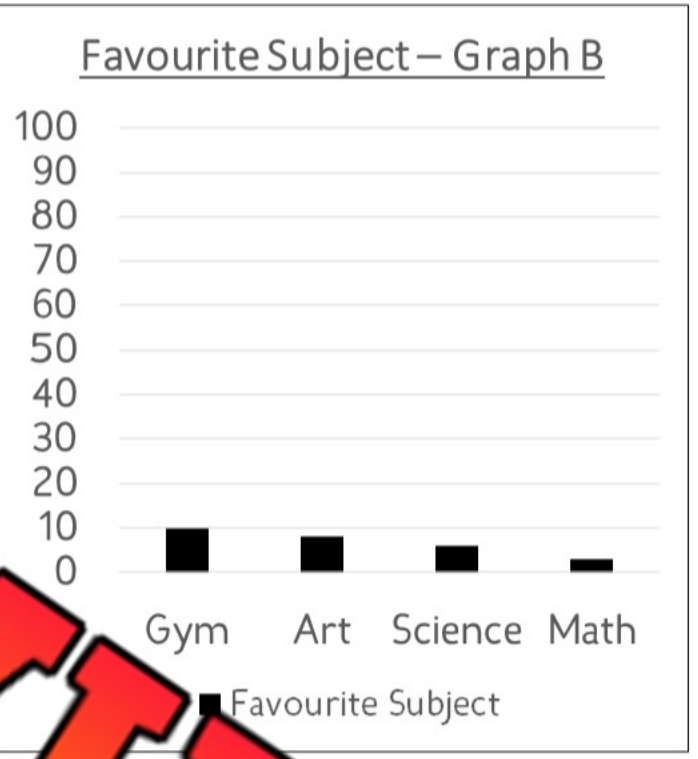
Name: _____ 24

Curriculum Connection
2

Favourite Subject - Examining Scale

The two graphs below display the same data. Examine both graphs and answer the questions below.





Questions What do you notice abou wo gr

a) What is the scale in Graph A?

b) What is the scale in Graph B?

c) Which graph uses more of the space?

d) Which graph is easier to read and interpret? Why is that graph better?

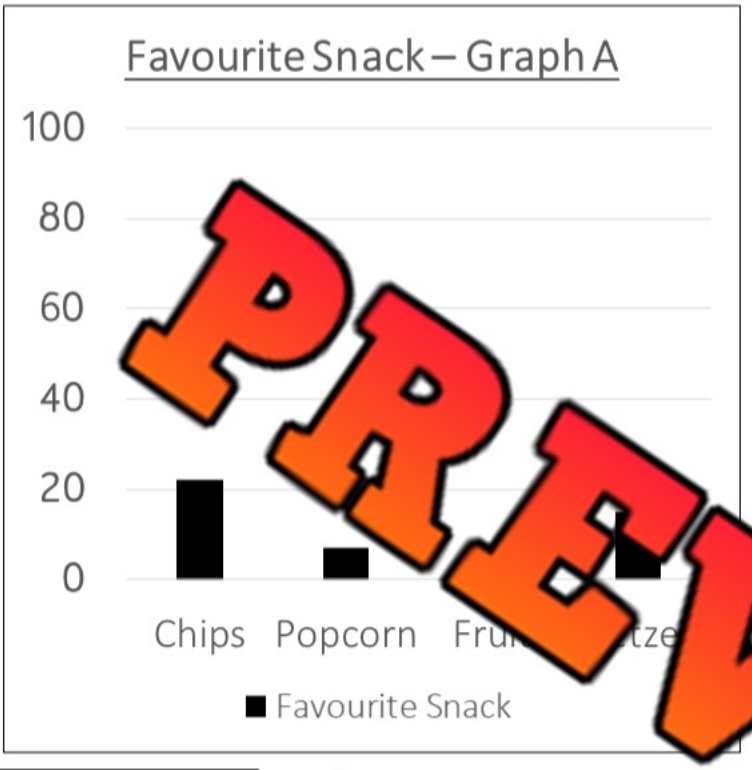
e) Why is it important to choose an appropriate scale?

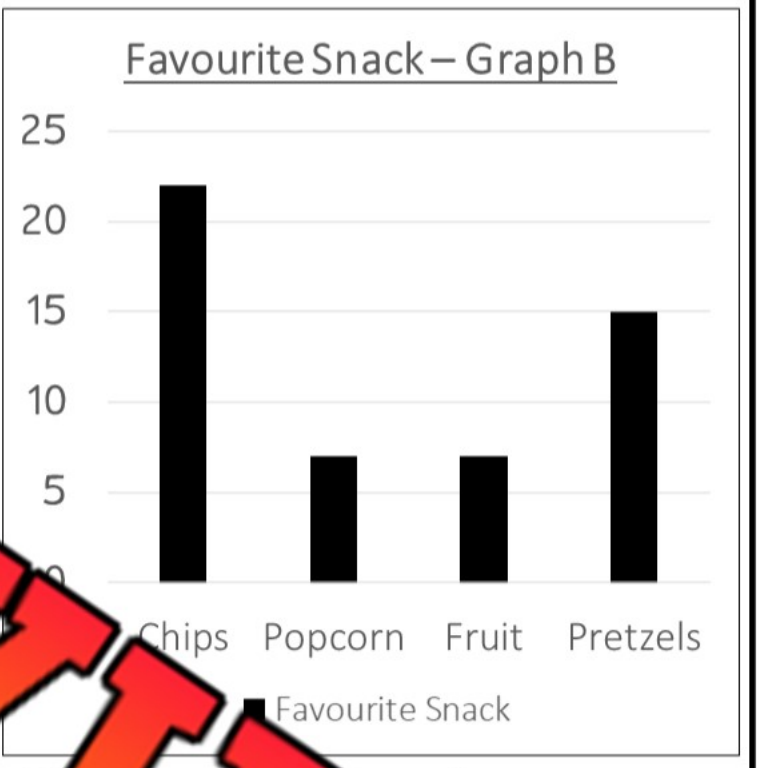
Name: _____ 25

Curriculum Connection
2

Favourite Snack - Examining Scale

The two graphs below display the same data. Examine both graphs and answer the questions below.





Questions

What do you notice a[illegible]he t[illegible]

a) What is the scale in Graph A?

b) What is the scale in Graph B?

c) Which graph uses more of the space?

d) Which graph is better? Why?

e) What other scales could you use for the data?

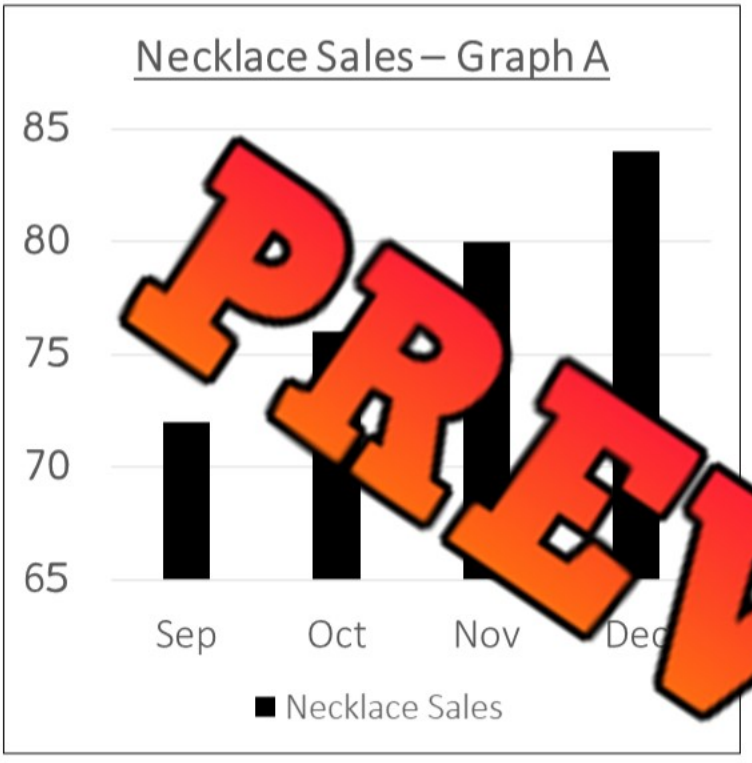
- Go up by _____
- Go up by _____

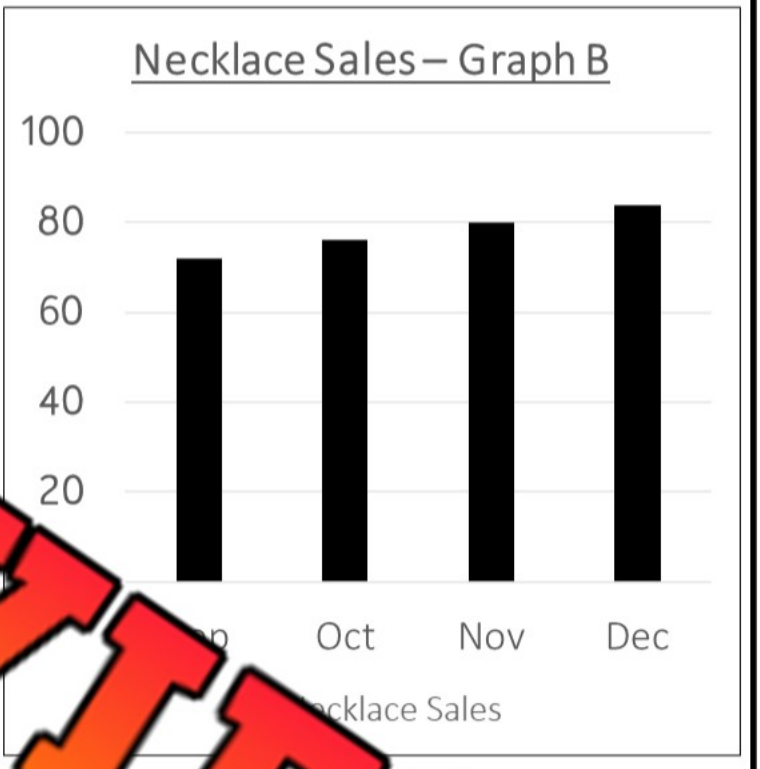
Name: _____ 26

Curriculum Connection
2

Misleading Graphs

Pretend you just started a necklace making business. You want to show your customers that business it growing like crazy and they need a necklace to fit in. Which graph would you choose for an infographic?





Questions What do you notice abou[illegible]

a) Which graph would you use to show customers that your [illegible]ave massively? Why?

b) How are the graphs different? Do they have the same data?

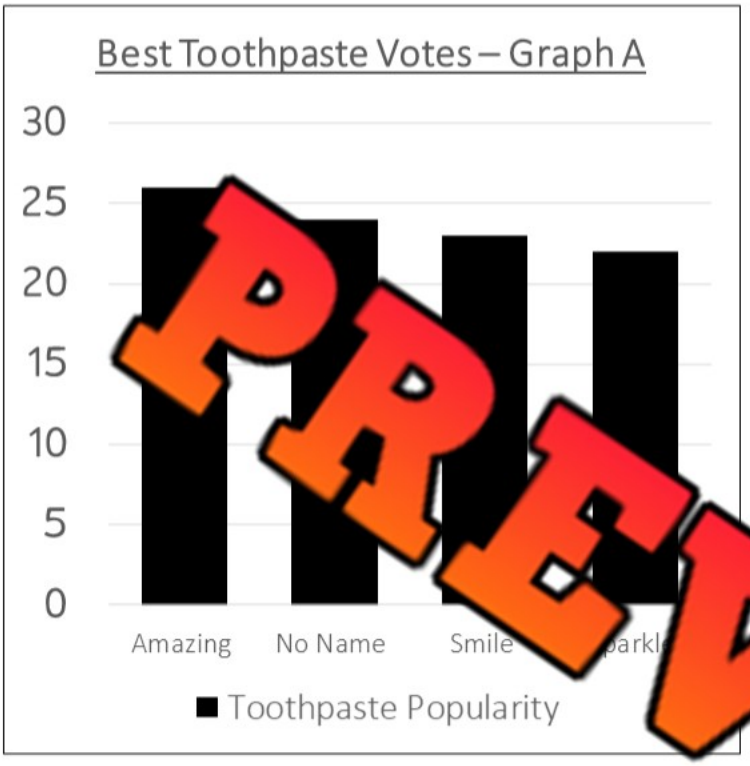
c) Why is it important to read a graph carefully?

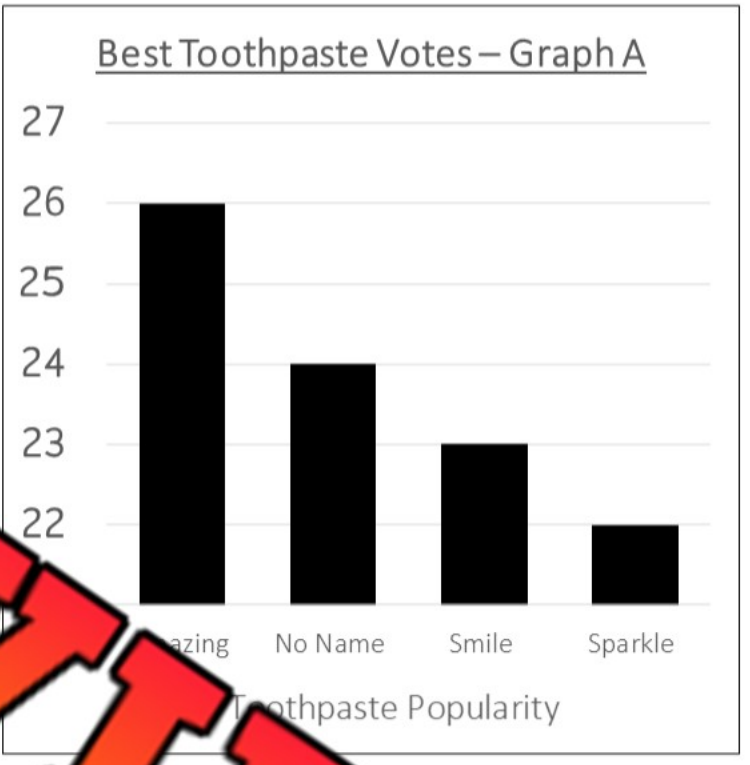
Name: _____ 27

Curriculum Connection
2

Misleading Graphs

Amazing Toothpaste is advertising that their toothpaste is the most popular brand on the market. Check out the two graphs below and decide which graph they should use.





Questions

What do you notice ab he t

a) Which graph would you use if you were Amazing Toothp y?

b) How are the graphs different? Do they have the same data?

c) Why would advertisements use charts like this to sell their products?