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Manitoba Math Curriculum Statistics– Grade 2

3-Part Lesson Format

Part 1 – Minds On!

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

GENERATING QUESTIONS

Learning Goal

We are learning to **create clear questions** that match a **survey goal**, so we can **collect the right information**, **organize our data**, and **understand what our results show**.

GENERATING QUESTIONS

Drag 4 correct options for each question below.

Questions		Beach	Olympics
1) What is your favourite sport?		Soccer	Hockey
A) _____	C) _____	Popcorn	Park
B) _____	D) _____	Crackers	Hospital
2) What is your favourite snack?		Pasta	Basketball
A) _____	C) _____	Zoo	Yoghurt
B) _____	D) _____	Baseball	Home
3) What is your favourite place to visit?		Water Park	Granola Bar
A) _____	C) _____		
B) _____	D) _____		

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

GENERATING QUESTIONS

One student comes to the front and asks the class a question. Count and record the responses in the table provided. Repeat the process again.



Questions	Category	Tally	Frequency
What is your favourite snack?			
What do you like to do at recess?			
What is your favourite season?			
What pet would you like to have?			
What is your favourite pizza topping?			
What is your favourite cartoon?			
What is your favourite toy?			



Manitoba Math Curriculum Statistics– Grade 2

TALLY MARKS

Count the tally marks.

7	
14	4
2	13
19	16
9	12

TALLY MARKS

4.38 Compare the tally marks and numbers.

		13			9
7				12	
		17			15
8				18	

>
=
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TALLY MARKS

Grade 2 students were asked which classroom job they like to do best.
Fill in the table by drawing the tally marks.

Category	Line Leader	Door Holder	Board Cleaner	Paper Passer
Tally				
Frequency	14	9	11	13

Questions	Answer
1) Which job is the most popular among grade 2 students?	
2) How many more students chose paper passer than door holder?	
3) How many students chose their favourite job?	

47

Paper Passer

50

4

Line Leader



Manitoba Math Curriculum Statistics– Grade 2

TALLY MARKS

Circle the words in the wordsearch



Count	More
Compare	Less
Key	Same
Group	Vote
Choice	Answer

W P X Y S A M E S I M O R E
S C G V O D Z Y T S H E C R
F C C O H U J N E F E N U C
I K O T L E S S F H B E U H
Y T U E S O Y I W O T K T O
A C N O Z U Q G Y R K E Y I
N L T V A D J R M O G N Z C
S Y J B V Z X U G O K D K E
W Q J C P Q M T R X K K R Z
E G S O F Y M F O Y X F A U
R E W R F Y S P U H H I F T
C O M P A R E O P Z Y I F W

READING CONCRETE

Count how many students chose each game.

1 2 3 4 5 6 7 8 9 0

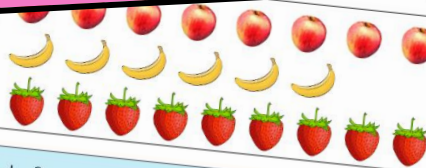
Grade 1's Favourite Games			
Hockey	Soccer	Basketball	Dodgeball

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.	



Result

Banana
Strawberry



- 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.

(picture = 1 vote)

5	2
Apple	21
23	Strawberry
Banana	1



Name: _____

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Curriculum
Connection
SPI

Creating Questions

Practice

Write 4 options for the survey questions below

1) What is the best subject in school?

- a) Math
- b) Science
- c) Gym
- d) Art

2) How did you get to school today?

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

3) What is your favourite sport?

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

4) What is your favourite fast food?

- _____
- _____
- _____
- _____

**Preview of 15 pages from this
product that contains 42 pages
total.**

5) What is your favourite pizza topping?

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

6) What is the best type of music?

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

7) What time do you go to bed at?

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

8) What kind of ice cream is the best?

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

Name: _____

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SPI

Creating Questions

Practice

Write a question and 4 options for answers

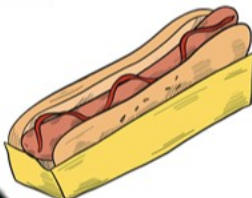
1) What is your favourite food?

a) Macaroni and Cheese

b) Pizza

c) Hot

d) Swiches



2)

a) _____

b) _____

c) _____

d) _____

3)

a) _____

b) _____

c) _____

d) _____

Name: _____

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Curriculum
Connection
SP1

Tally Marks

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

Part 1

Count the tally marks

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

Part 2

Draw a tally mark for that number

4 =	8 =	11 =
13 =	17 =	20 =
27 =	32 =	

Part 3

Which is greater? Use the < > or =

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

Name: _____

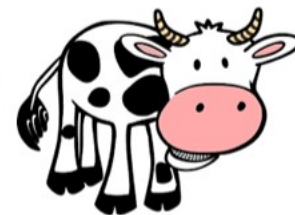
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Curriculum
Connection
SP.2

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?	_____

Name: _____

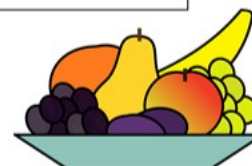
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Curriculum
Connection
SP2

Tally Tables - Favourite Fruit

Part 1

Fill in the tally table below



Favourite Fruit

Fruit	Tallies	Frequency
 Strawberry		
 Blueberry		8
 Raspberries		
 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.

Name: _____

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Curriculum
Connection
SP2

Reading a Concrete Graph - Food



LEGEND

- Burger = 
- Fries = 
- Salad = 
- Pasta = 
- Sub = 

Questions

Read the concrete graph and answer the questions

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

Name: _____

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Curriculum
Connection
SP1, SP2

Creating a Concrete Graph - Colour

Questions

Survey your class and use the data in a concrete graph

Survey Question: What is your favourite colour?

Instructions - When a classmate tells you their favourite colour, put a dot in the box above the colour (for fun, try to use the same colour they told you).

LEGEND

Blue =



Red =



Pink =



Green =



Purple =



Questions

1. What is the most popular colour?

2. What is the least popular colour?

Name: _____

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Curriculum
Connection
SP.1, SP.2

Creating a Concrete Graph - Hobby

Questions 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
Tally				
Frequency				

LEGEND

Reading =



Computer =



Gaming =



Playing Outside =



Questions

1. What is the most popular hobby?

2. What is the least popular hobby?

Name: _____

15

Curriculum
Connection
SP.1, SP.2

Creating a Concrete Graph

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

Survey Question: _____

Category				
Tally				
Frequen				

LEGEND

=

=

=

Name: _____

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Curriculum
Connection
SP-2

Reading a Concrete Graph - Sports

LEGEND

Hockey = 

Soccer = 

Basketball = 

Tennis = 

Golf = 

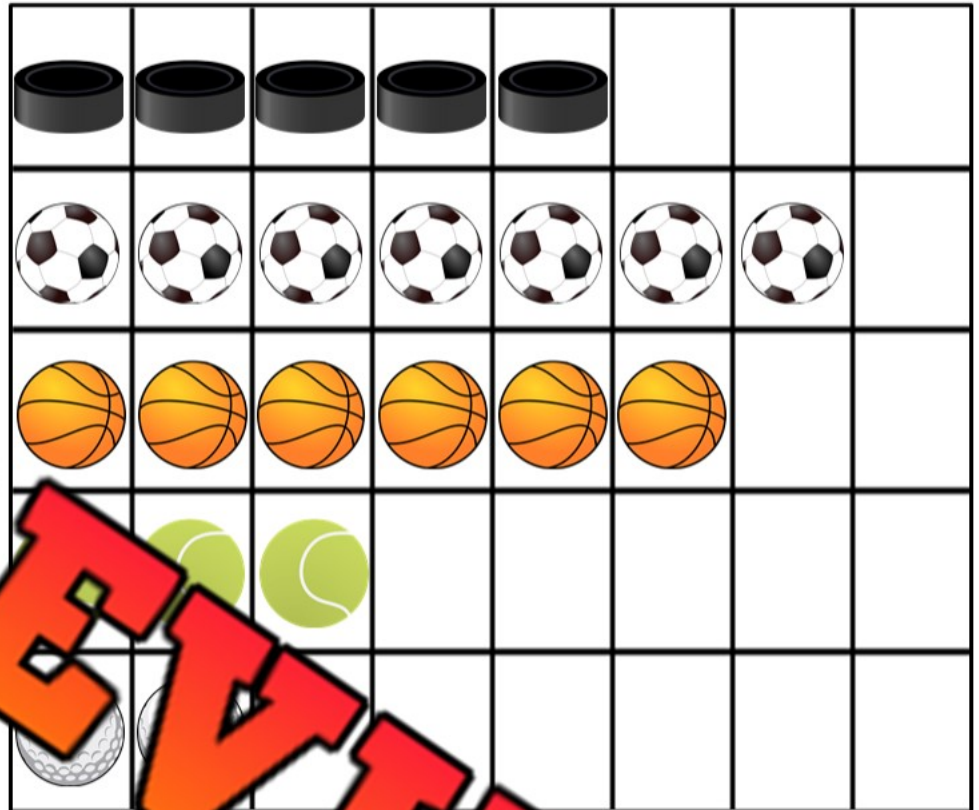
Hockey

Soccer

Basketball

Tennis

Golf



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: _____

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Curriculum
Connection
SP2

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 pictogram.

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.

Name: _____

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Curriculum
Connection
SP.2

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 pictograph that displays the data above



= 1 ticket

1) Who won the most tickets?	_____
2) How many more tickets did Dane win then Neil?	_____
3) How many total tickets did the 5 kids win?	_____

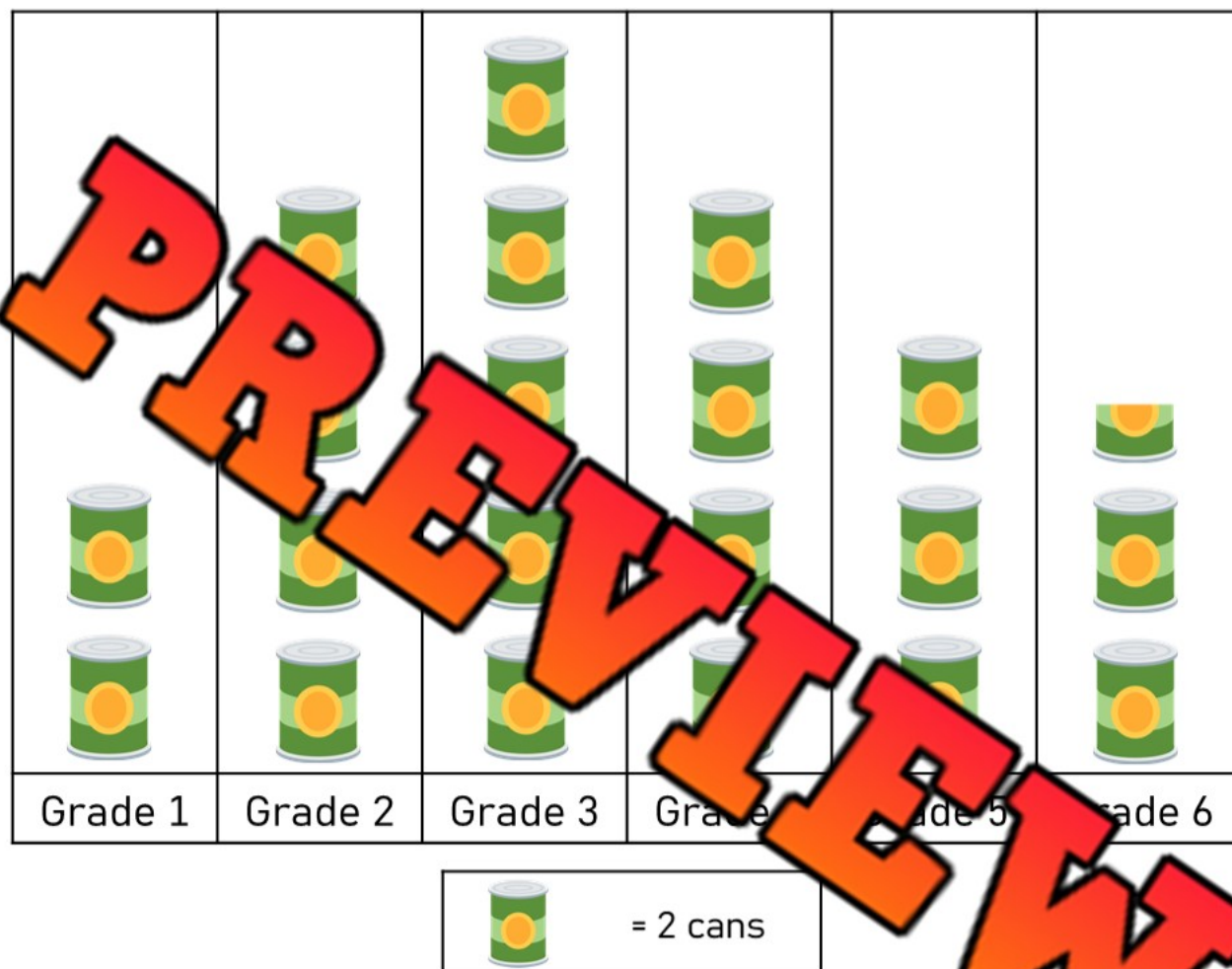
Name: _____

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Curriculum
Connection
SP2

Vertical 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.



a) How many cans is one picture worth?

b) Which class brought the most amount 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?

Name: _____

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Curriculum
Connection
SP2

Creating a Vertical Pictogram

Colton played 5 games hockey last week. The number of goals he scored in each game is displayed below. Create a pictogram to show his goals.

Game 1	1
Game 2	7
Game 3	3
Game 4	5
Game 5	2



Game 1	Game 2	Game 3	Game 4	Game 5



= 1 goal

1) Which game did he score the most goals? _____ Least goals? _____

2) How many more goals did he score in game 2 than game 1? _____

Name: _____

24

Curriculum
Connection
SP.1, SP.2

Creating a Pictograph

Questions Survey your class and use the data to draw a pictograph

Survey Question: _____

Options				
Tally				
Frequency				

LEGEND

= _____

Questions

1. Which option was the most popular?

2. Which option was the least popular?

3. How many more people liked the most popular option than the least popular option?