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Saskatchewan Math Curriculum Shape & Space – Grade 7

3-Part Lesson Format

Part 1 – Minds On!

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

Learning Goal

We are learning to compare angles and determine their sizes so we can understand which angles are larger or smaller by matching them and measuring with non-standard units.



Measuring Angles - Protractor

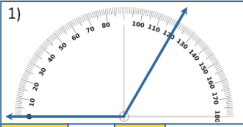
Measure the angles and drag the labels to determine the type of angle.

Right

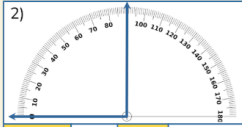
Acute

Obtuse

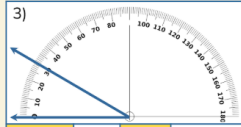
1 2 3 4 5
6 7 8 9 0



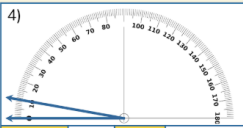
Angle Type



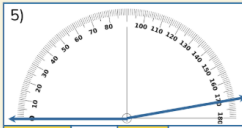
Angle Type



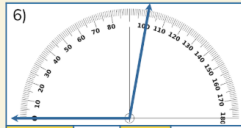
Angle Type



Angle Type



Angle Type



Angle Type

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Measuring Angles – Word Problems

- 1) Theo measures the three angles of a triangle as 70° , 70° , and 40° . Is Theo's triangle a right triangle, an acute triangle, or an obtuse triangle?

- 2) Naomi drew a triangle where one angle was 100° and another was 30° . What is the measure of the third angle? What type of triangle is this based on its angles?





Saskatchewan Math Curriculum

Shape & Space – Grade 7

Pythagorean Theorem

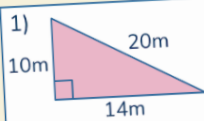
Is the triangle a right triangle? Drag the numbers, labels and circle to answer.



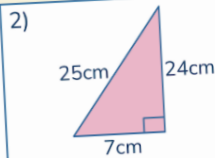
a b c

$\angle$ $\sqrt{\quad}$

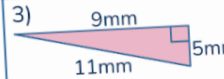
1 2 3 4 5 6 7 8 9 0



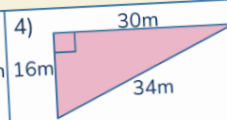
Yes No



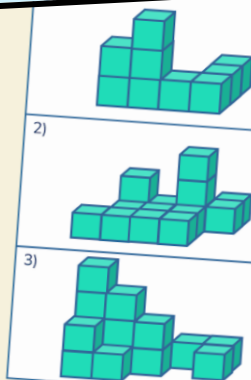
Yes No



Yes No



Yes No



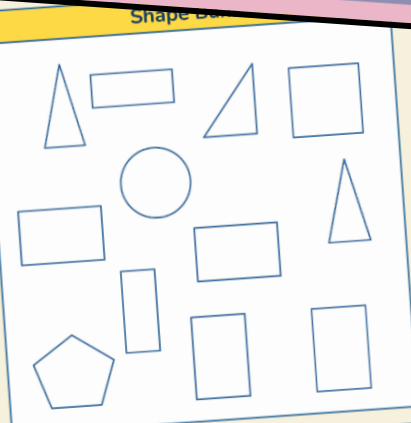
Top View

Front View

Side View

Drag shapes from the shape bank that represent the objects below.

#	3D Shape	Top View	Front View	Side View
1)				
2)				
3)				
4)				





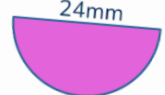
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Shape & Space – Grade 7

Semi - Circle

Fill in the blanks below.

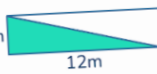
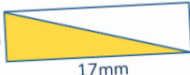
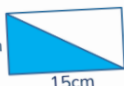
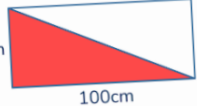
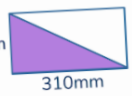
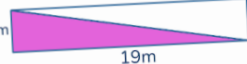
cm mm m km **1 2 3 4 5 6 7 8 9 0.**

1)  Area: _____	2)  Area: _____	3)  Area: _____	4)  Area: _____
5)  Area: _____	6)  Area: _____	7)  Area: _____	8)  Area: _____

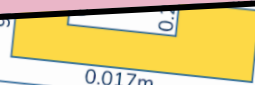
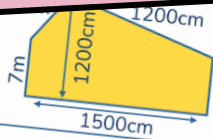
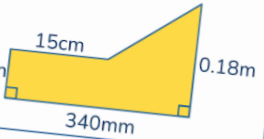
Introduction – Area

Find the area of the triangles below ($A = b \times h \div 2$).
Drag the numbers to answer the questions.

mm² cm² m² **1 2 3 4 5 6 7 8 9 0.**

 Area of a rectangle = _____ Area of a triangle = _____	 Area of a rectangle = _____ Area of a triangle = _____	 Area of a rectangle = _____ Area of a triangle = _____
 Area of a rectangle = _____ Area of a triangle = _____	 Area of a rectangle = _____ Area of a triangle = _____	 Area of a rectangle = _____ Area of a triangle = _____

6 7 8 9 0.

 Area = _____	 Area = _____	 Area = _____
 Area = _____	 Area = _____	 Area = _____



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Saskatchewan Math Curriculum

Number Unit – Grade 7

3-Part Lesson Format

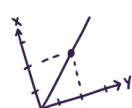
Part 1 – Minds On!

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



Learning Goal

We are learning to recall and use division facts for numbers like 2, 5, 10, 3, 4, 6, 7, 8, and 9, and divide by 10, so we can solve problems with numbers quickly and easily.



Discussion Questions

- 1) How can you tell if a number is divisible? – If you look at a number like 24, how can you quickly decide if it is divisible by 2, 3, or 4 without dividing each time? What clues do you notice?
- 2) What's the fastest way to divide? – If you need to solve $72 \div 8$, would you rather skip count, use multiplication, or another strategy? Why?
- 3) Why does dividing by a bigger number make the answer smaller? – If you divide $48 \div 4$, you get 12, but if you divide $48 \div 8$, you get 6. Why does dividing by a bigger number give you a smaller answer?

Divisibility Check

Paste the sticky notes on the specified boards.

45 95 105 135 351 501 81 570 456 3456

Divisible by 5

Divisible by 9

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Divisibility Rules - Word Problems

- 1) Eli says that all numbers divisible by 6 are also divisible by 3. Is Eli correct? Explain why or why not.
- 2) Sorrel says that all odd numbers are not divisible by 2. Is this always true? Explain why.
- 3) Kairo has 96 pencils. He wants to arrange them into equal rows of 7. Will there be any pencils left over? How do you know?





Saskatchewan Math Curriculum

Number Unit – Grade 7

Adding Decimals – Thousandths – No Regrouping

Use the standard algorithm to solve the addition problems below.

	3	3	.	4	6	2
+	4	6	.	5	2	1

	4	1	.	4	6	5
+	3	5	.	0	3	2

	3	1	6	.	4	1
+	1	6	3	.	2	5

	5	3	1	.	2	6
+	2	0	2	.	4	1

	3	3	
x		5	

2)			
	4	1	
x		3	

3)			
	5	7	
x		2	

4)			
	6	8	
x		8	

5)			
	7	7	
x		4	

6)			
	9	9	
x		9	

1)					
	1	3	.	2	6
x					7

2)					
	2	7	.	4	9
x					2

3)					
	4	.	3	3	
x					5

4)					
	4	1	.	2	8
x					4

5)					
	6	7	.	9	6
x					8

6)					
	8	9	.	7	8
x					9



Saskatchewan Math Curriculum

Number Unit – Grade 7

Multiplication – 2-Digit Multiplier

Use the standard algorithm to solve the multiplication problems below.

1)									
		2	5	.	3	6			
x						1	4		

2)									
			3	.	6	5			
x						7	2		

3)									
			9	4	.	5	2		
x							9	6	



Generating Fractions Between

List at least three fractions between the numbers.

3	←		→	7
12	←		→	18
21	←		→	35

2-kilometre race with the following times. Put the cyclists in order from fastest to slowest.

Runner	Kai	Mira	Jalen	Priya	Owen	Ali
Time (s)	10.295	$9\frac{2}{6}$	9.228	10.559	$10\frac{5}{8}$	11.378



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Saskatchewan Math Curriculum Patterns & Relations – Grade 7

3-Part Lesson Format

Part 1 – Minds On!

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

LEARNING GOAL

We are learning to analyze and interpret input-output tables using the four operations (+, -, ×, ÷) to explain how numbers change and to identify and represent the pattern rule that connects them.

Identifying Independent and Dependent Variables

Identify the independent and dependent variables in the situations below.

1) Priya earns \$80 for each day she babysits.		Independent		Dependent	
		Days	Earnings	Days	Earnings
2) Tavish cycles 12 km every hour.		Independent		Dependent	
		Hours	Distance	Hours	Distance
3) The temperature rises 2°C every hour after 9:00 a.m.		Independent		Dependent	
		Temperature	Time	Temperature	Time
4) Desmond reads 8 pages every 10 minutes.		Independent		Dependent	
		Time	Pages Read	Time	Pages Read
5) Nia's savings increase by \$15 every week.		Independent		Dependent	
		Savings	Weeks	Savings	Weeks

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Pattern Rule – Input/Output Tables

Fill in the input/output tables below by using the expression provided.

In a	Out $4a + 6$	In b	Out $6b \div 2$	In c	Out $10c - 7$	In d	Out $9 + 2d$
1		2		1		1	
2		4		2		2	
3		6		3		3	
4		8		4		4	
5		10		5		5	



Saskatchewan Math Curriculum

Patterns & Relations – Grade 7

Increasing Patterns

How many blocks are in each term? Sketch the next 3 terms.

--	--	--	--	--	--

1) Describe the pattern rule in your own words.

2) Represent the pattern using an algebraic expression:

Graphing Increasing Patterns

Translate the increasing patterns into a table of values and a line graph.

A classroom collects charity coins. On Day 1, there are 10 coins in the jar. Each day after that, 4 more coins are added.

Term Number (Day)	1	2	3	4	5	10	15
Term Value (Coins)							

Circle if the pattern displayed on the graph is linear.

1)		Linear	Non-Linear
2)		Linear	Non-Linear



Saskatchewan Math Curriculum Patterns & Relations – Grade 7

Writing Algebraic Expressions – Increasing Pattern

Draw the 4th and 5th term, then answer the questions.

				
Term 1	Term 2	Term 3	Term 4	Term 5

Questions

- Write an expression that represents how many shapes are in the pattern.
- How many shapes will be in the 15th term?
- How many shapes will be in the 30th term?
- How many rectangles will be in the 50th term?
- How many smiley faces will be in the 500th term?

Expression

Pattern Rule – Input/Output Tables – Integers

Fill in the input/output tables below.

In n	Out $n + (-5)$	In n	Out $3n + (-2)$	In n	Out $n + 8$	In x	Out $2x + (-9)$	In p	Out $p + (-14)$
1		1		-1		2		-3	
2		2		-2		4		-6	
3		3		-3		6		-9	
4		4		-4		8		-12	
5		5		-5		10		-15	

Use expressions to quickly calculate the total for students buying gear for their classes. Use the price list below to help Leo find the totals.

Item	Variable	Price
Pen	(p)	\$1.25
Notebook	(n)	\$3.50
Eraser	(e)	\$0.75
Folder	(f)	\$1.50

Order	Expression & Substitution	Answer
1) 4 pens, 2 notebooks	$4 \times p + 2 \times n$	
2) 3 erasers, 5 folders	$4 \times 1.25 + 2 \times 3.50$	\$12.00
3) 2 notebooks, 1 pen, 3 folders		
4) 10 pens, 2 erasers		
5) 6 folders, 4 notebooks		
6) 2 of every item		
7) 5 pens, 5 erasers, 5 folders		
8) 2 notebooks, 10 erasers		



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Saskatchewan Math Statistics– Grade 7

3-Part Lesson Format

Part 1 – Minds On!

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

MEASURES OF CENTRAL TENDENCY

Learning Goal

We are learning to **analyze how adding or removing data affects the mean, median, and mode using calculations and comparisons of data sets**, so we can **explain how these changes impact the shape and distribution of the data**.



CALCULATING MEAN

1 2 3 4 5 6 7 8 9 0

Easter Egg Hunt— Add the total chocolates and share them equally.

Ethan	Olivia	Mason	=	Total	=	Ethan	Olivia	Mason	Mean =
24	18	15							
Nikki	Logan	Amelia	=	Total	=	Nikki	Logan	Amelia	Mean =
30	21	24							
Jacob	Aiden	Harper	=	Total	=	Jacob	Aiden	Harper	Mean =
18	24	21							
Nora	Caleb	Isla	=	Total	=	Nora	Caleb	Isla	Mean =
69	85	104							

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

FINDING MISSING DATA POINT USING MEAN

Find the missing data point for the word problems below.

1 2 3 4 5 6 7 8 9 0

- 1) Maya has completed 5 science tests. Her marks are: 82%, 75%, 88%, 90%, and 85%. To earn an A, she needs an average of 85% after her next test (6 tests total). What mark does she need on her final test to reach an average of 85%?
- 2) A runner trained for 5 days with an average distance of 6 km per day. She ran 5 km, 7 km, 6 km, and 8 km in the first four days. How far did she run on the fifth day?
- 3) Emma read books over 4 days with an average of 32 pages per day. She read 28 pages, 35 pages, and 30 pages in the first three days. How many pages did she read on the fourth day?
- 4) A basketball player scored points in 6 games with an average of 20 points per game. His scores were: 18, 22, 19, 25, 21, and ?

Games	Game 1	Game 2	Game 3	Game 4	Game 5	Game 6
Points	18	22	19	25	21	

What did he score in the **last game**?



Saskatchewan Math Statistics– Grade 7

MODE AND MEDIAN - OUTLIERS

Find the mode and median with and without the outliers

1 2 3 4 5 6 7 8 9 0

Data Set	Mode With Outlier(s)	Mode Without Outlier(s)
10, 14, 12, 14, 13, 14, 50		
38, 42, 40, 42, 39, 41, 90		
65, 70, 68, 70, 72, 150, 70		
95, 100, 98, 100, 97, 210, 100		
220, 230, 225, 230, 240, 600, 230		
8.5, 9.0, 8.8, 9.0, 9.2, 20.5, 9.0		
55, 60, 58, 60, 57, 120, 60		

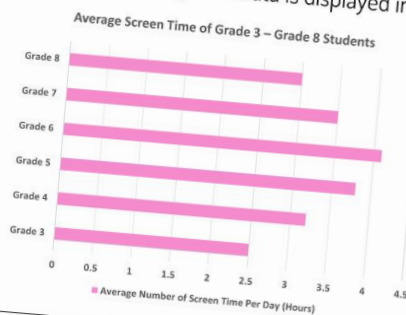
Data Set	Median With Outlier(s)	Median Without Outlier(s)
14, 18, 16, 15, 17, 50, 19		
32, 35, 30, 34, 33, 90, 31		
60, 65, 70, 68, 72, 150, 66		
82, 88, 85, 90, 87, 200, 84		
9.2, 8.8, 9.0, 9.1, 8.9, 20.5, 9.3		
120, 125, 130, 128, 127, 300, 122		
45, 50, 48, 47, 49, 110, 46		

HORIZONTAL BAR GRAPH

...collected data on the average number of hours students spend on screens per day. The data is displayed in a horizontal bar graph.



1 2 3 4 5 6 7 8 9 0



Questions	Answer
1) Which group has the highest average screen time?	
2) Which group has the lowest average screen time?	
3) Did the teacher collect primary or secondary data?	Primary Secondary Discrete Continuous
4) Is this data discrete or continuous ?	
5) Approximately how many students...	

MEAN, MEDIAN, MODE

Answer the questions below.

1 2 3 4 5 6 7 8 9 0

A B C

You are choosing between 3 fitness programs based on how active participants are. You are given the number of steps taken in one day by 5 participants in each program.

	Participant 1	Participant 2	Participant 3	Participant 4	Participant 5
Program A	8,200	8,500	8,300	8,100	8,400
Program B	7,800	7,900	15,000	7,800	8,000
Program C	6,500	6,700	6,600	10,500	10,500

a) Rank the 3 programs by their **mean number of steps**. Which program would you choose?

b) What are the **modes** of the three programs?

c) Now find the **median number of steps** instead of the mean to rank the programs.

d) If you remove the outlier from **Program B**, what is the **new mean**?

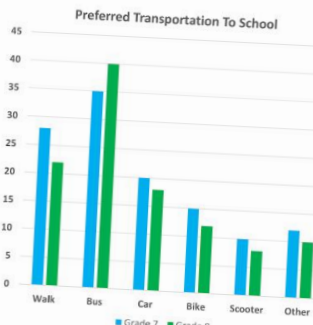
A
B
C



Saskatchewan Math Statistics– Grade 7

INTERPRETING DOUBLE BAR GRAPHS

The students in Grade 7 and Grade 8 were asked how they prefer to travel to school. The results are shown below.



Scooter

Other

1 2 3 4 5 6 7 8 9 0

- 1) Which transportation method did the **Grade 7** students choose the most?
- 2) Which transportation method did the **Grade 8** students choose the most?
- 3) How many more students chose **Bus** than **Walk** in total?
- 4) How many students **participated** in the survey?
- 5) What **percentage** of **Grade 7** students chose **Walk**?
- 6) What **percentage** of **Grade 8** students chose **Bus**?

Grade 7	Grade 8

Walk

Bus

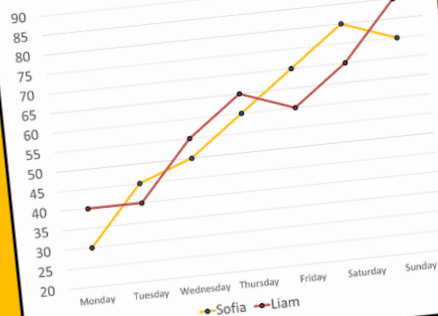
Car

Bike

INTERPRETING

Sofia and Liam tracked how many minutes they spent studying each day for one week. The results are shown in the graph below.

Study Time In a Week (in min)



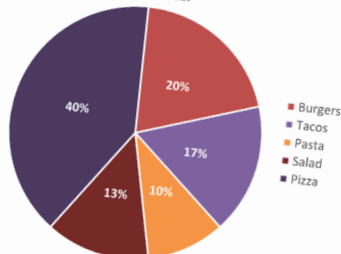
Fill in the frequency table and answer the questions.

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Sofia (min)							
Liam (min)							

- 1) Who studied more minutes **in total** over the week?
- 2) Is this data **continuous** or **discrete**? Explain your thinking.
- 3) What was the **percentage** of **Liam's** study time on Sunday?
- 4) What was the **percentage** of **Sofia's** study time on Saturday?

Sofia	Liam
Continuous	
Discrete	

Favourite Meal



Tacos

Pasta

Fill in the frequency table and answer the questions.

	Burgers	Tacos	Pasta	Salad	Pizza
Votes	6/30	5/30			
%			10%	13%	40%

- 1) Which meal is the **most popular** among the teens?
- 2) Do **Tacos, Pasta, and Salad** combined make up more than half of the choices?
- 3) Which meal represents **one-fifth (20%)** of the choices?
- 4) What **percentage** of teens did **NOT** choose pizza?

Yes	No