Name:

Teacher:

Grade Six Math Snapshot

Assessment Summary

Competency / Content	Proficiency Marker		
Number Sense	**Emerging**	**Developing**	**Proficient**
Place Value (1-9)			
Proportional Reasoning			
Fractions & Decimals (1-12)			
Linear Relations, Geometry & Data Analysis			
Linear Relations (1-4)			
Measurement (5)			
Data Analysis (6)			
Computational Fluency			
Modeling (1-2)			
Adding (3-4)			
Subtraction (5-6)			
Multiplication (7-10)			
Division (11-12)			
Order of Operations (13)			

Grade Six

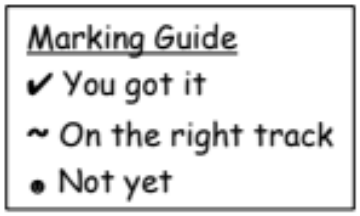
This grade six Math Snapshot has been designed as a formative assessment and universal screener for students entering grade six. The assessment is based on foundational skills from prior years and is designed to allow educators to identify the learning needs of students.

The information gained from this tool will serve as a universal screener and will inform individual, small group, and class instruction. It will also help identify patterns of instructional needs in a class as we work to ensure students master these foundational math skills.

Teachers are encouraged to administer the assessment in *small sections* during the first weeks of the year. A small team of teachers will come together to mark the assessments and heat map the results by class.

This snapshot is an inventory of skills and does not represent the full, complex set of skills necessary for proficiency in mathematics. It can provide information to inform our Inclusive Education team about planning and support for student success.

Use the column to the right of each question to indicate student understanding using the following marking guide. Scoring of the assessment will not be calculated numerically, but rather will be looked at holistically to help inform instruction:

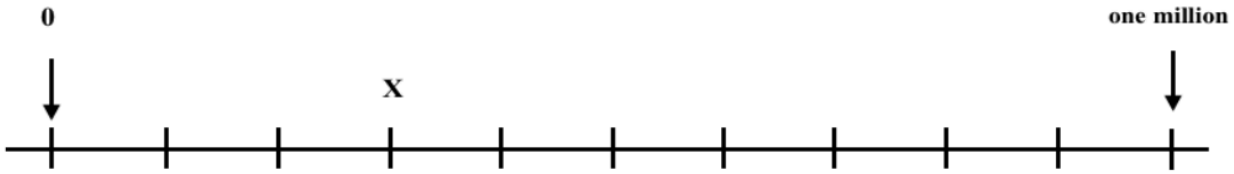


Students will also complete a self-reflection following each section of the snapshot:

This was (circle one):	Easy for me	I need some review	Difficult

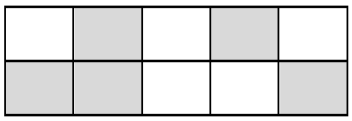
Number Sense

Place Value		
1.	Continue counting. 21 996, 21 997, 21 998, _____, _____, _____	
2.	Write three hundred forty-seven thousand sixty-two as a number. _____	
3.	How is 89 501 written in words? _____	
4.	What is 3.16 written in words? _____	
5.	Write the number that is represented by 800 000 + 40 + 9 000 _____	
6.	1 479 658 Which number represents each place value? millions ___ hundred thousands ___ hundreds ___ tens ___	

7.	Put the following numbers in order from least to greatest. 521 035 506 583 50 795 523 004 _____ _____ _____ _____	
8.	Write the number which is 10 000 more than 881 462 _____	
9.	What number does X represent?  x = _____	

<u>This was (circle one)</u>:	Easy for me	I need some review	Difficult

Proportional Reasoning

1.	What fraction would describe the shaded part of the diagram? 	
2.	What fraction of the set is triangles? 	
3.	Draw a picture to show $\frac{6}{10}$	
4.	Circle the picture that shows 3/4 of the animals are fish? A  B  C  D 	
5.	Write the following fractions in order from smallest to largest. $\frac{7}{10}, \frac{4}{10}, \frac{3}{10}, \frac{8}{10}$	

6. Write the following fractions in order from smallest to largest.

$\frac{5}{6}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}$

7. Write an equivalent fraction for

$\frac{8}{10}$

8. Write an equivalent fraction for

$\frac{20}{40}$

9. Place the fractions $\frac{2}{3}$ and $\frac{1}{2}$ approximately where they belong on the number line:

10. Write the following numbers in order from smallest to largest.

0.64 0.8 0.259

_____ _____ _____

11. Write $\frac{7}{100}$ as a decimal.

12. Write 0.337 as a fraction.

This was (circle one): Easy for me I need some review Difficult

Linear Relations, Measurement & Data Analysis

Linear Relations

1. Write the missing number.

$17 + 23 = 20 + \square$

2. What is the value of n?

$4 + n = 7$ n=_____

3. What is the value of n?

$3n = 12$

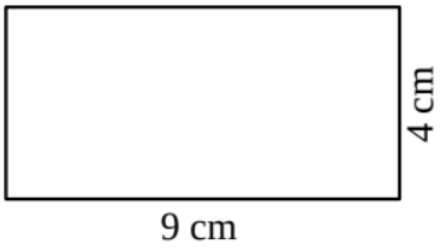
n = _____

4. Here is a pattern chart for Tom's tower. Extend the chart.

Level	Number of Blocks
1	2
2	5
3	8
4	11
5	14

Measurement

5. Find the area and perimeter of the figure below.

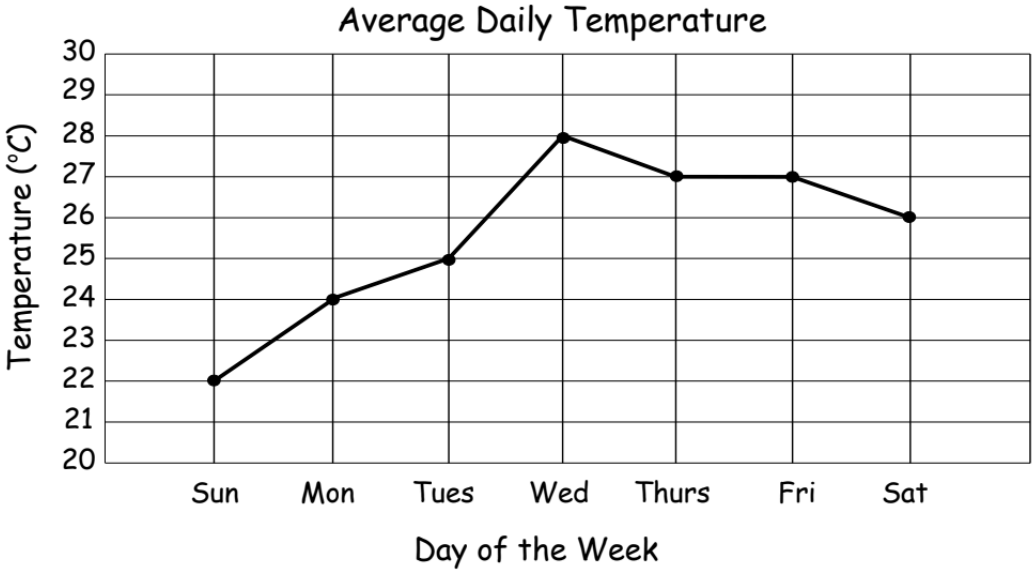


Area: _____

Perimeter: _____

Data Analysis

6.



On which day was the temperature the highest? _____

How much warmer was it on Friday than Tuesday? _____

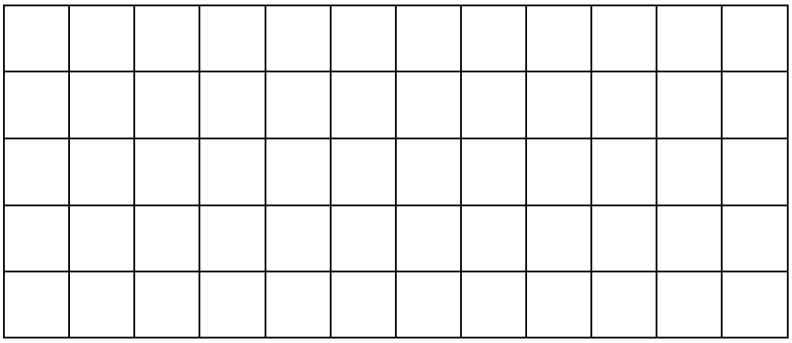
On which two days was the temperature the same?_____

This was (circle one):	Easy for me	I need some review	Difficult

Computational Fluency

Modeling

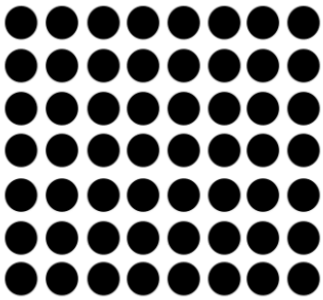
1. Write 2 multiplication equations that match this array.



_____

_____

2. Write 2 division equations that match this array.



_____

_____

Addition

3. 25 905 + 37 358

4. 16.475 + 5.08

Subtraction

5. 97 052 - 36 471

6. 24.07 - 17.346

Multiplication				
7.	5 x 73	8.	86 x 28	
9.	425 x 3	10.	238 x 42	
Division				
11.	252 ÷ 7	12.	363 ÷ 24	
Order of Operations				
13.	Solve the following expression 4 + 6 x 3 ÷ 2 - 1			

This was (circle one):	Easy for me	I need some review	Difficult

Answer Key

Number Sense		
Place Value	**1.**	21 999 22 000 22 001
	2.	347 062
	3.	Eighty-nine thousand five hundred one
	4.	Three and sixteen hundredths
	5.	809 040
	6.	Millions - 1 Hundred thousands - 4 Hundreds - 6 Tens - 5
	7.	50 795 506 583 521 035 523 004
	8.	891 462
	9.	X = 300 000
Proportional Reasoning		
Fractions & Decimals	**1.**	5/10 or 1/2
	2.	2/5
	3.	Answers will vary
	4.	A (6/8 = 3/4)
	5.	3/10 4/10 7/10 8/10
	6.	1/3 1/2 2/3 5/6
	7.	Answers will vary E.g. 4/5 12/15 16/20 etc.
	8.	Answers will vary E.g. 1/2 2/4 etc.
	9.	You got this!!
	10.	0.259 0.64 0.8
	11.	0.07
	12.	337/1000
Linear Relations, Geometry, Data Analysis		

Linear Relations	**1.**	20
	2.	n = 3
	3.	n = 4
	4.	6, 17 7, 20
Measurement	**5.**	Area = 36 cm^2 Perimeter = 26 cm
Data Analysis	**6.**	Highest = Wed. 2° Thurs/Fri
Computational Fluency		
Modeling	**1.**	5 x 12 = 60 12 x 5 = 60
	2.	56 ÷ 8 = 7 56 ÷ 7 = 8
Addition	**3.**	63 263
	4.	21.555
Subtraction	**5.**	60 581
	6.	6.724
Multiplication	**7.**	365
	8.	2 408
	9.	1 275
	10.	9 996
Division	**11.**	36
	12.	15 R (15.125)
Order of Operations	**13.**	12