

Name:

Teacher:

# Grade Six/Seven Math Snapshot

## Assessment Summary

Competency / Content	Proficiency Marker		
Number Sense	Emerging	Developing	Proficient
Place Value (1-6)			
Ordering (7-9)			
Number Concepts (10-12) (**Grade 7)			
Proportional Reasoning			
Fractions & Decimals (1-6)			
Mixed Numbers (7) (**Grade 7)			
Percent (8-9) (**Grade 7)			
Ratio (10) (Ratio)			
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 (11-14)			
Order of Operations (15)			

## Grade Six/Seven

This grade six/seven Math Snapshot has been designed as a formative assessment and universal screener for students entering grade six or seven. 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:

<u>Marking Guide</u>
✓ You got it
~ On the right track
● Not yet

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

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

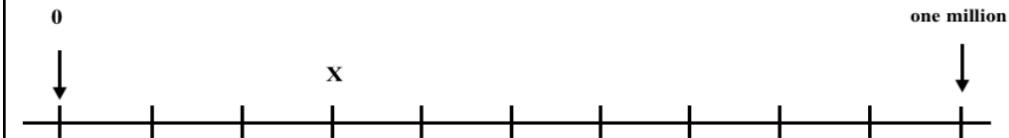
## Place Value

1.	Write three hundred forty-seven thousand sixty-two as a number. _____	
2.	Write one million four hundred thirty thousand forty-five as a number. _____	
3.	How is 89 501 written in words? _____	
4.	What is 3.016 written in words? _____	
5.	Write the number that is represented by $800\,000 + 40 + 9\,000$ _____	
6.	<b>321 479 658</b>  Which number represents each place value? ten millions ____ hundred thousands ____ hundreds ____ tens ____	

## Ordering

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  _____	

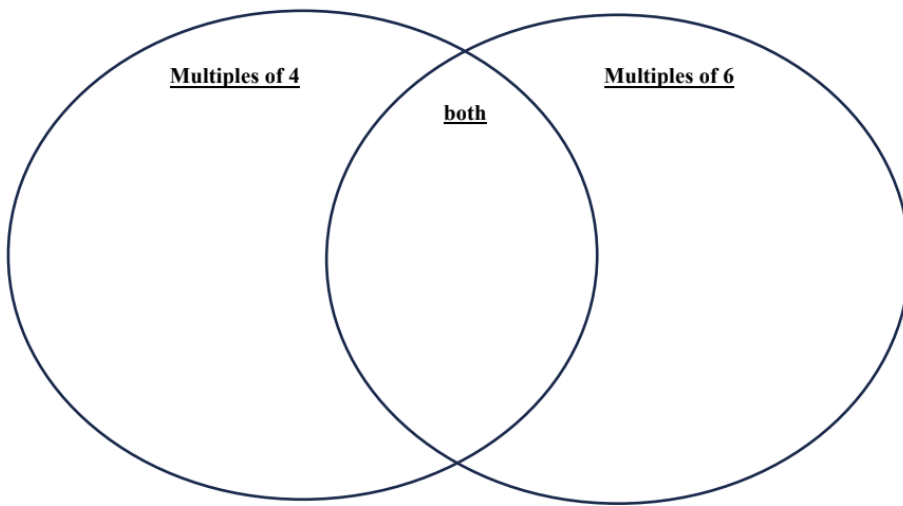
9. What number does X represent?



x = \_\_\_\_\_

**Number Concepts**

10. Using the numbers listed below, place the numbers where they best fit in the Venn diagram



8   12   13   16   18   32   46   54   72   200   210

11. What is the greatest common factor of 24 and 60?

GCF: \_\_\_\_\_

12. List the Prime Numbers between 0 and 50.

**This was (circle one):**

Easy for me

I need some review

Difficult

# Proportional Reasoning

## Fractions, Decimals, Percent, Ratio

1. Which picture shows  $\frac{3}{4}$  of the animals are fish?



2. Put these fractions in order from least to greatest.

$$\frac{1}{2} \quad \frac{5}{8} \quad \frac{2}{6} \quad \frac{3}{4}$$

\_\_\_\_\_

3. Put the numbers below in order from least to greatest.

0.37      0.080      0.842      0.361      0.8

\_\_\_\_\_

4. Write a proper fraction to represent 0.25

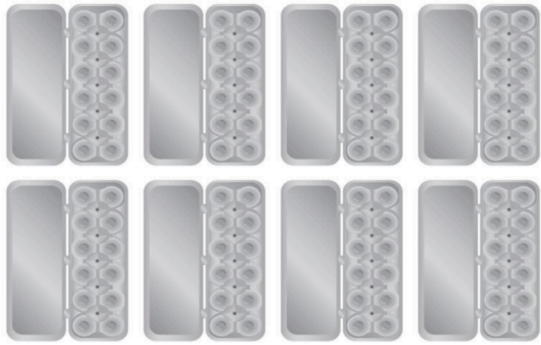
\_\_\_\_\_

5. Write a proper fraction to represent 0.37

\_\_\_\_\_

6. Use numbers, pictures or words to show that 0.25 has the same **value** as (**equivalent to**)  $\frac{2}{8}$

7. A farmer fills  $3\frac{5}{12}$  of the egg cartons shown below with eggs.

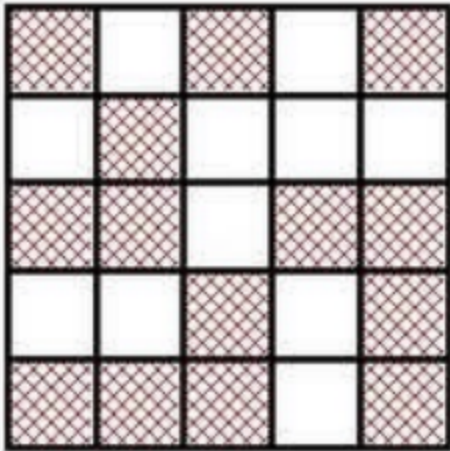


How many eggs in total does the farmer have? \_\_\_\_\_

8. Find 10% Of \$85

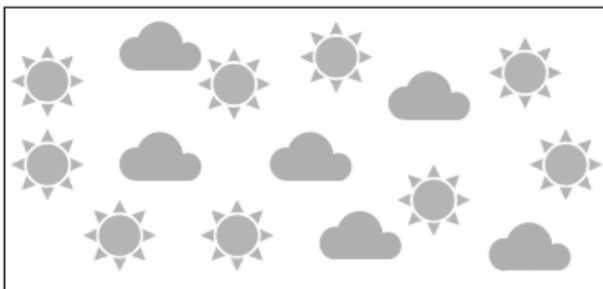
\_\_\_\_\_

9. What percentage of the image is shaded grey?



\_\_\_\_\_

10. What is the ratio of ☀ to ☁ below? \_\_\_\_\_



**This was (circle one):**

Easy for me

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# Linear Relations, Geometry & Data Analysis

## Linear Relations

1. Write the missing number.

$$17 + 23 = 20 + \square$$

2. What is the value of n?

$$4 + n = 7 \quad n = \underline{\hspace{2cm}}$$

3. What is the value of n?

$$3n = 12$$

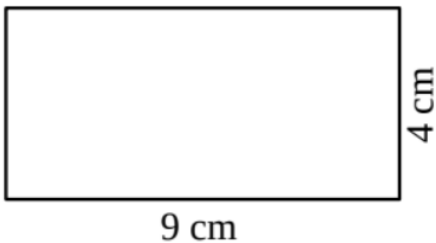
$$n = \underline{\hspace{2cm}}$$

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.

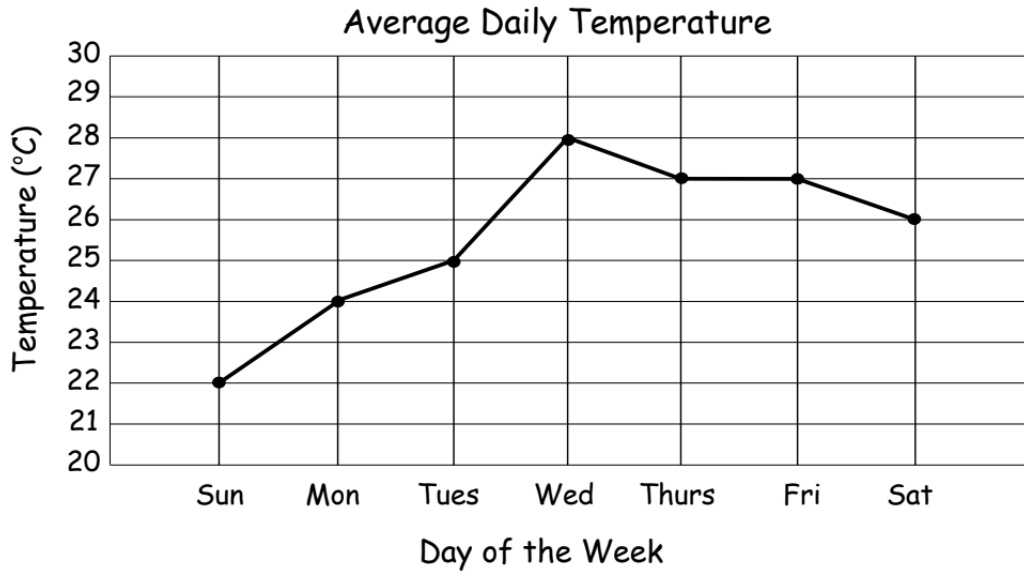


Area: \_\_\_\_\_

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

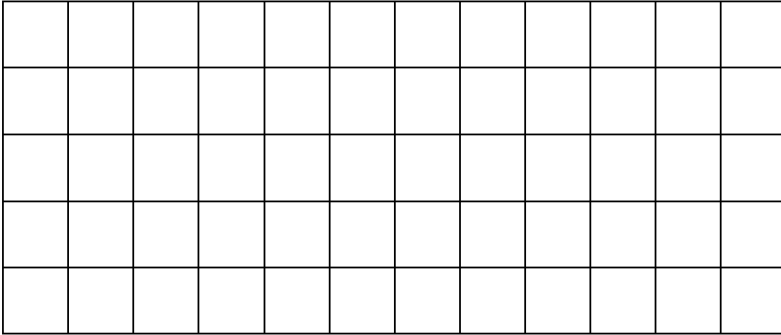
I need some review

Difficult

# Computational Fluency

## Modeling

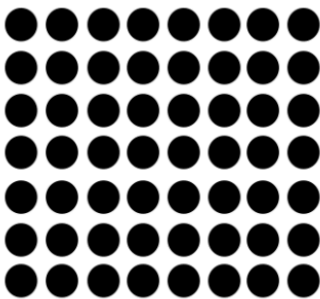
1. Write 2 multiplication equations that match this array.



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2. Write 2 division equations that match this array.



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## Addition

3.  $25\,905 + 37\,358$

4.  $16.475 + 5.08$

## Subtraction

5.  $97\,052 - 36\,471$

6.  $24.07 - 17.346$

### Multiplication

7.  $5 \times 73$

8.  $86 \times 28$

9.  $4.25 \times 3$

10.  $23.8 \times 0.4$

### Division

11.  $252 \div 7$

12.  $363 \div 24$

13.  $5.4 \div 6$

14.  $11.3 \div 0.4$

### Order of Operations

15. Solve the following expression

$$4 + 6 \times 3 \div 2 - 1$$

**This was (circle one):**

Easy for me

I need some review

Difficult

## Answer Key

Number Sense	
Place Value	1. 347 062
	2. 1 463 045
	3. Eighty-nine thousand five hundred one
	4. Three and sixteen thousandths
	5. 809 040
	6. Ten millions - 2 Hundred thousands - 4 Hundreds - 6 Tens - 5
Ordering	7. 50 795   506 583   521 035   523 004
	8. 891 462
	9. 300 000
Number concepts (Grade 7)	10. Multiples of 4: 8, 16, 32, 200 Multiples of 6: 18, 54, 210 Both: 12, 72 Neither: 13, 46
	11. GCF: 12
	12. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47
Proportional Reasoning	
Fractions	1. A
	2. $\frac{2}{6}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$
Decimals	3. 0.080, 0.361, 0.37, 0.84, 0,842
Decimals/Fractions	4. $\frac{25}{100}$ $\frac{1}{4}$
	5. $\frac{37}{100}$
	6. Answers will vary
Mixed Numbers (Grade 7)	7. 41 eggs
Percent (Grade 7)	8. \$8.50

	<b>9.</b>	56%
Ratio (Grade 7)	<b>10.</b>	9:6 9 to 6 3:2 3 to 2 (not 6:9 or 2:3 or a fraction)
<b>Linear Relations, Geometry, Data Analysis</b>		
Linear Relations	<b>1.</b>	20
	<b>2.</b>	$n = 3$
	<b>3.</b>	$n = 4$
	<b>4.</b>	6, 17 7, 20
Measurement	<b>7.</b>	Area = $36 \text{ cm}^2$ Perimeter = 26 cm
Data Analysis	<b>8.</b>	Highest = Wed. $2^\circ$ Thurs/Frid
<b>Computational Fluency</b>		
Modeling	<b>1.</b>	$5 \times 12 = 60$ $12 \times 5 = 60$
	<b>2.</b>	$56 \div 8 = 7$ $56 \div 7 = 8$
Addition	<b>3.</b>	63 263
	<b>4.</b>	21.555
Subtraction	<b>5.</b>	60 581
	<b>6.</b>	6.724
Multiplication	<b>7.</b>	365
	<b>8.</b>	2 408
	<b>9.</b>	12.75
	<b>10.</b>	9.52
Division	<b>11.</b>	36
	<b>12.</b>	15.125 (or 15 R3)
	<b>13.</b>	0.9
	<b>14.</b>	28.25
Order of Operations	<b>15.</b>	63 263