Name: $\qquad$

## Unit 1: Patterns and Relations

1. How can you tell if 1245 is divisible by 2 ? by 5 ? by 10 ?
2. Write an algebraic expression for each statement. Example: "two more than 4 times a number" is $4 n+2$
a) A number increased by four
b) Three more than five times a number
c) Double a number and subtract six
d) A number divided by seven

## Unit 2: Integers:

1. Add
a) $(+5)+(-2)$
b) $(-7)+(+4)$
2. Subtract
a) $(+6)-(+5)$
b) $(+2)-(-3)$
3. Puncak Jaya, New Guinea, is 5040 m above sea level. Lake Assal, Djibouti, is 156 m below sea level. What is the difference in elevations of these two locations? Draw a diagram.

Name: $\qquad$

## Unit 7: Data Analysis

1. The counters in a bag are sorted by colour.

| Colour | Number of <br> Counters | Colour | Number of <br> Counters |
| :--- | :---: | :--- | :---: |
| Red | 9 | Purple | 15 |
| Yellow | 16 | White | 18 |
| Orange | 15 | Pink | 16 |
| Green | 8 | Brown | 15 |
| Black | 10 |  |  |

a) How many counters are in the bag? $\qquad$
b) What is the mean number of counters? $\qquad$
c) What is the mode? How do you know? $\qquad$
d) What is the range of the data? $\qquad$
2. Here are the science test marks for Grade 7 students at Grosvenor School: 78, 56, 73, 69, 82, 30, 55, 47, 60, $21,73,49,89,93,59,76,70,88,100,73,97,50,65,77,53,62,80,91,76,83,51,62,73,84,99,68,81$, 85, 74, 96, 82, 69, 72, 97, 54, 48, 61
a) Calculate the mean, median, and mode marks.
b) Identify any outliers.
c) Find the mean, median, and mode marks without the outliers.
d) How is each average affected when the outliers are not included?

Name: $\qquad$

## Unit 3: Fractions, Decimals and Percents

1. Write each decimal as a fraction in simplest form and each fraction as a decimal.
a) $0.44=$ $\qquad$ b) $2 \frac{7}{11}=$ $\qquad$ c) $0 . \overline{45}=$ $\qquad$ d) $\frac{13}{20}=$ $\qquad$ e) $0.094=$ $\qquad$
2. Use any method. Order these numbers from least to greatest.

Show your work.
$1 \frac{7}{12}, \frac{11}{6}, 1 . \overline{3}, 2$

## Unit 4: Circles and Area

1. For each circle, write the required measure.
a) Write the diameter.

b) Write the radius.

2. Find the circumference and area of each circle in question 1. $C=\pi d$ and $A=\pi r^{2} \quad$ where $\pi \approx 3.14$
3. Calculate the area of each parallelogram. $\left(A_{\text {paralellogram }}=b h\right)$
a)

b)
c)

d)



Name: $\qquad$

## Unit 5: Operations with Fractions

1. Add or subtract.
a) $\frac{1}{4}+\frac{5}{12}$
b) $\frac{3}{5}-\frac{1}{10}$
c) $\frac{2}{3}+\frac{3}{5}$
d) $\frac{5}{9}-\frac{1}{4}$
2. Your classmate incorrectly tells you that $1 \frac{1}{3}+2 \frac{1}{3}=3 \frac{2}{6}$.

Explain where your classmate went wrong.
Use two different methods to show your classmate the correct solution.

## Unit 6: Equations

1. Solve the equation using a method of your choice. Verify the solution.
a) $x-3=12$
b) $14=x+8$
c) $7 x=63$
d) $6 x+3=21$

## Grade 7 Math Review Sheet 5

## Math 8 Fougere

Name: $\qquad$

## Unit 8: Geometry

1. Look at the diagram.

a) Find as many pairs of parallel line segments as you can.

How do you know they are parallel?
b) Find as many pairs of perpendicular line segments as you can.

How do you know they are perpendicular?
2. Look around your classroom.
a) Find 3 examples of parallel lines. Sketch diagrams to illustrate each example.
b) Find 3 examples of perpendicular lines. Sketch diagrams to illustrate each example.

