

# TAURANGA GIRLS COLLEGE

## YEAR 9 Introduction Homework Sheet



Name: \_\_\_\_\_

Tutor Class: \_\_\_\_\_

Welcome to Maths at TGC!

This is the first of your Maths homework sheets. This one is a bit different because you will probably do some of it in class so you can get familiar with what you need to do.

You will be given a homework sheet each week and return it for marking on the day set by your teacher. It is designed to regularly review skills from all parts of the Mathematics curriculum and help you identify skills you have not mastered and improve these skills. The cost for these is \$5 for the year as they are write-on. There will be other homework in addition to these sheets.

### About RP<sup>2</sup>, you and your Maths class:

The school values can be represented by the Maths expression **RP<sup>2</sup>**.

Write down the three *TGC school values*:

\_\_\_\_\_

Write down:

The name of your Maths teacher: \_\_\_\_\_

What room(s) you have Maths in: \_\_\_\_\_

What school (and room) did you attend last year?

\_\_\_\_\_

Write down one interesting thing you remember doing in Maths last year:

## Try This: The value of your Name:

If A = \$1, B = \$2, C = \$3, and so on, calculate the value of your name.

For example, for *Jane* J = 10, A = 1, N = 14, E = 5;

So the total of *Jane* is:  $10 + 1 + 14 + 5 = 30$ , and the value of Jane's name is \$30.

You may find this table of help:

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Your name: \_\_\_\_\_ Working: \_\_\_\_\_

The value of my name is: \_\_\_\_\_

### Can you answer these questions?

*Important!* There is a space for you to show your working for each question.

1. If you **add** one \$50, one \$20, one \$10 and one \$5 *to your name*, how much money would you have?

**Total value =** \_\_\_\_\_

2. What is **difference** between the value of your name and \$100?

**Difference =** \_\_\_\_\_

3. What if there were **ten** of you! What would be the total value of ten of you?

**Total =** \_\_\_\_\_

Write down the names, and their value, of three other people in your class:

Name #1: \_\_\_\_\_ Name value: \_\_\_\_\_

Name #2: \_\_\_\_\_ Name value: \_\_\_\_\_

Name #3: \_\_\_\_\_ Name value: \_\_\_\_\_

### Can you answer these questions? Remember to show your working!

1. List the three values you have in **ascending order**.

2. What is **difference** between biggest and smallest value?

3. What is the **sum** of the three names?

# What do you remember? Some skills and some numeracy.

1.

	3	8	26	75
+ 7				

2.

	6	2	9	20
x 5				

3.  $62 + 10 =$

4.  $10 + 35 + 10 =$

5.  $53 - 20 =$

6.  $65 \times 10 =$

7.  $28 \div 4 =$

8. In the number 1234 which digit is in the *tens* column?

9. Round 471 to the nearest *hundred*.

10. Insert < or > to make it a true statement

$254$  \_\_\_\_\_  $789$

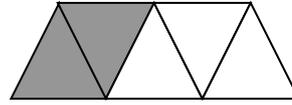
11. Calculate  $10^2 =$  \_\_\_\_\_

12. Calculate  $(5 + 3) \times 2$

\_\_\_\_\_

13. Write 0.1 as a fraction = \_\_\_\_\_

14. What fraction is shaded?



\_\_\_\_\_

15.  $\frac{1}{5}$  of 40 = \_\_\_\_\_

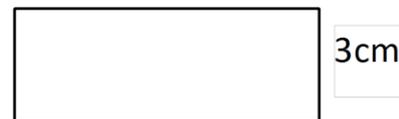
16. Write the next two numbers in this sequence:

11, 18, 25, \_\_\_\_\_, \_\_\_\_\_

17. 1 metre = \_\_\_\_\_ mm

18. What is the *perimeter* of this rectangle?

8cm



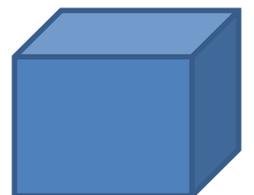
\_\_\_\_\_ cm

19. Name this shape:



\_\_\_\_\_

20. How many *vertices* does this cube have?



\_\_\_\_\_

How did you go?

**Total:** \_\_\_\_\_ / 20

## Another look at RP<sup>2</sup>

*"I may not always be the best in a subject,  
but my behaviour and attitude can always be the best"*

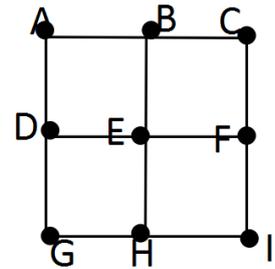
One thing you need to do to be successful in your studies is to always do your best.

This often requires these **RP<sup>2</sup>** qualities: **R**esilience **P**urpose **P**erseverance  
Give it a go, try hard and stick with it if it gets hard.

### Try this:

There are nine towns on a square grid.

The towns are labelled A to I as shown on the grid.



Mark is travelling from town A to town I

Mark writes down these possible routes to take:

$A \rightarrow B \rightarrow C \rightarrow F \rightarrow I$  or  $A \rightarrow D \rightarrow E \rightarrow B \rightarrow C \rightarrow F \rightarrow I$

Mark wants to take the *shortest* route. Which of these two routes is the *shortest*?

How many towns will Mark visit if takes the *shortest route*?

Make a list of all the *shortest* routes Mark could take:

How *many* possible *shortest* routes can Mark take?

If Mark had to pay a \$2 road tax for each section of the road he travelled on.  
For example:  $A \rightarrow B$  would cost \$2 and  $A \rightarrow B \rightarrow C$  would cost \$4, what is the *minimum cost* of Mark's travel from  $A \rightarrow I$ ?

Due Date: \_\_\_\_\_

**Parent Signature:** \_\_\_\_\_