

TAURANGA GIRLS COLLEGE
YEAR 10 HOMEWORK SHEET
Series B Sheet 1

TGC Values: Respect, Participation, Pride

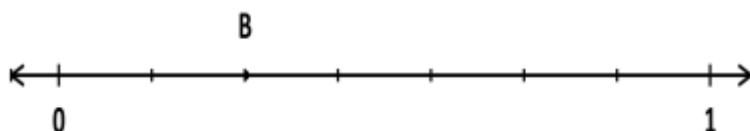
Name: _____

Due Date: _____



KEY SKILLS:

1. In the number 981.423 what digit is in the *hundredths* column?
2. Round 0.364 to the nearest *tenth*
3. Write *six tenths* as a decimal
4. Insert $<$ or $>$ to make it a true statement:
1.45 _____ 1.42
5. What are the first five multiples of 3?
6. List all the factors of 16
7. Complete this equivalent fraction: $\frac{1}{7} = \frac{\quad}{35}$
8. What *fraction* is shown by the point B on the number line below?
9. $9\frac{1}{2} \text{ m} = \text{_____ mm}$
10. How many kilogrammes are there in *one tonne*? _____
11. If $m = 5$ and $n = 12$, what is the value of:
 $2m + n = \text{_____}$
 $m - n = \text{_____}$
 $n^2 = \text{_____}$
 $\frac{n}{2} = \text{_____}$
12. If $15h = 120$, what value is h ?
13. Calculate $\sqrt{95}$ and round your answer to 1dp
14. Calculate 14.3% of \$5600
15. Write \$34 as a percentage of \$180



Key Skills Total: _____ / 18

CURRENT WORK (CL 4 – 5): Statistics (You can use a calculator)

A. Collecting Data

Miss Smith, the PE teacher for 10BNM recorded on her roll how long it took the girls in the class to run 40 metres. The times were recorded to the nearest second. The times were:

10, 11, 12, 7, 8, 13, 20, 8, 8, 9, 7, 8, 8, 9, 10, 10, 10, 12, 13, 9, 9, 9

Complete the dot plot for the data:



- a) How many students in 10BNM ran the 40m? _____
- b) What was the *range* of times? _____
- c) Most students took between _____ and _____ to run the 40m.
- d) Which of the times is unusual? _____

Miss Smith also had the *Progress in Subject* marks for the interim reports for 10BNM on her roll. Students can get grades of: *Above Expectation (A)*, *Meeting Expectation (M)*, *Below Expectation (B)* and *Causing Concern (C)*.

The marks were:

M, M, B, C, M, M, M, M, A, A, M, M, B,
M, M, M, M, B, M, M, B, M

Complete the tally / frequency table

Mark	Tally	Freq
A		
M		
B		
C		

- e) Which student in 10BNM do you think got a grade of *Causing Concern*?

Current Work CL4-5: ____ / 7

CURRENT WORK (CL 5 – 6): Statistics (You can use a calculator)

A Number Review

1. What is the full cost of an item marked \$945 + GST?
2. The cost of a sewing machine is \$5800. In a sale it is reduced by 14%. What is the sale price?
3. The cost of a suit is reduced from \$560 to \$450 in a sale. What percentage reduction is this?
4. The cost of petrol is \$1.78 a litre. Last year it was \$1.92. What percentage decrease is this?
5. Greg and Sarah divide their flatting costs in the ratio 3:4. If the rent was \$420 how much did Sarah pay?
6. David and Sam divided the costs of their flatting costs in the ratio 2:3. If David paid \$169 how much did Sam pay?

7. The data below gives the length of some Movies (In minutes)

117 73 97 82 109 121 79 132 104 105 108 93 80
82 83 133 83 83 85 109 106 91 92 105 138

Collate this data on a Stem and Leaf plot. On the first grid just enter the data as it comes, on the second grid order the data on each stem

13		13	
12		12	
11		11	
10		10	
9		9	
8		8	
7		7	

Why is it helpful to order the data?

Current Work CL5-6: ____ / 9

APPLICATIONS and TASKS

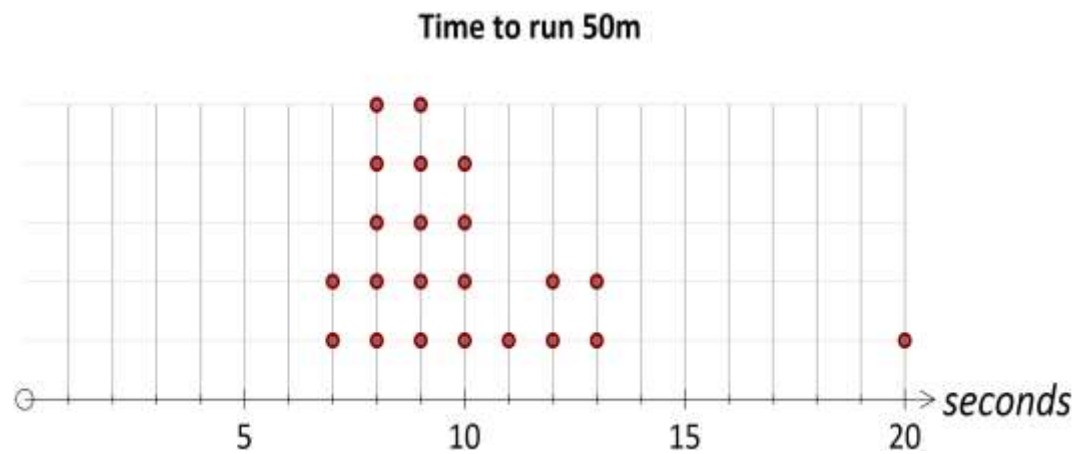
One method used to both collect data and compare two groups of data is a *back-to-back stem and leaf plot*. The data below shows the height (to the nearest centimetre) for the Boys and Girls in a group of students. Present the data as a back to back stem and leaf plot.

Boys	Girls
111	137
140	168
171	170
160	147
159	159
163	150
176	153
120	160
184	182
161	140
127	165
164	154
132	106
142	162
183	125
177	153
153	113
163	136
175	150
160	153
	141
	121
	143

Applications Total: _____ / 4

Overall Results:

<i>KS</i>	<i>CL4-5</i>	<i>CL5-6</i>	<i>APP</i>	<i>Total</i>	<i>Parent Signature:</i>
18	7	9	4	38	



Armspans

43	18	2
7651	17	0
433100	16	0258
93	15	0033349
20	14	0137
2	13	67
70	12	15
1	11	3
	10	6