TAURANGA GIRLS COLLEGE
YEAR 10 HOMEWORK SHEET
Series B Sheet 2
TGC Values: Respect, Participation, Pride

Name: _____

Due Date: _____

KEY SKILLS:

1. In the number 7092.123 what digit is in the *hundredths* column?

2. Round 0.287 to the nearest *tenth*

3. Write *six hundredths* as a decimal

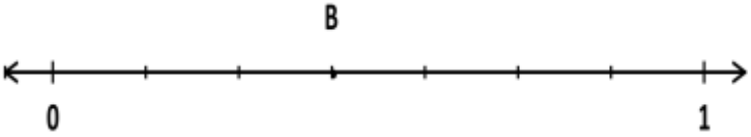
4. Insert < or > to make it a true statement:
10.45 ____ 10.47

5. What are the first five multiples of 4?

6. List all the factors of 20

7. Complete this equivalent fraction: $\frac{2}{7} = \frac{\quad}{35}$

8. What *fraction* is shown by the point B on the number line below?



9. 6½ m = _____ mm

10. How many kilogrammes are there in *six tonne*? _____

11. If m = 2 and n = -10, what is the value of:
5m + n = _____

m – n = _____

n^2 = _____

$\frac{n}{2}$ = _____

12. If 25h = 200, what value is h?

13. Calculate $\sqrt{165}$ and round your answer to 1dp

14. Calculate 4.8% of $680

15. Find $350 as a percentage of $4800

*Key Skills Total: _____ / **18***

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

Data Analysis – Middle and Spread

James is in Year 7. He asked some friends in his class how many times they had been to the movies this year. He wrote the data in order from the least to the greatest: 0, 0, 0, 1, 1, 1, 1, 2, 2, 2, 2, 2, 5

1. What was the most common number of times they had been to the movies this year? _____

2. What name in Mathematics is given to your answer in question 1? _____

3. What was the *median* number of times they had been to the movies this year? _____

4. What was the *range* of number of times the girls had been to the movies this year? _____

5. Is the range a measure of the *middle* or *spread* of the data? _____

Miss Jones, the PE teacher for 10DFG, has recorded on her roll how long it took the girls in the class to run 50 metres. The times were recorded on this dot plot:

6. How many students in 10DFG ran the 50m? _____

7. What fraction of the class took more than 10 seconds? _____

8. What was the *range* of times? _____

9. What was the *mode* time? _____

10. What was the *median* time? _____

11. Most students took between _____ and _____ to run the 50m.

*Current Work CL4-5: ___ / **7***

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

The stem and leaf graph gives the resting pulse rate per minute of the students in 10TYM

Resting Pulse Rate per Minute

9	1 5
8	2 3 4 5 6
7	2 2 4 7 7 8 8 9
6	1 5 7 8
5	9

1. How many students in 10TYM had their resting pulse rate measured? ____

2. What was the *range* of rates? _____

3. What was the *mode* rate? _____

4. What was the *median* rate? _____

5. What was the *mean* rate? _____

The data below gives the height of a group of girls (in cm)

145, 146, 147, 150, 153, 154, 159, 160, 165, 168, 170, 172, 174

6. What is the *median* height? _____

7. What is the *lower quartile* height? _____

8. What is the *upper quartile* height? _____

9. What is the *interquartile range* of the heights? _____

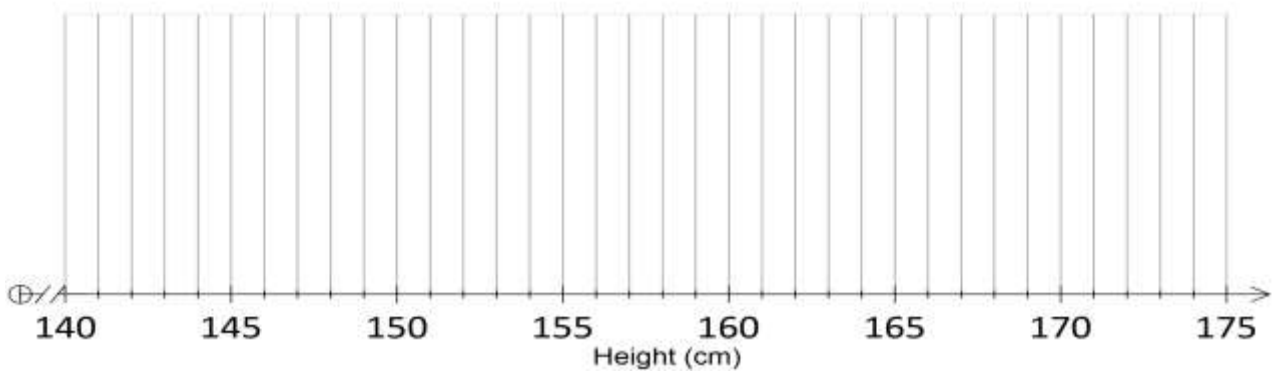
10. What was the *mean* height? _____

11. In questions 7 to 10, which statistics are *measures of spread?*

_____

12. Draw a box plot for the heights on the grid below:

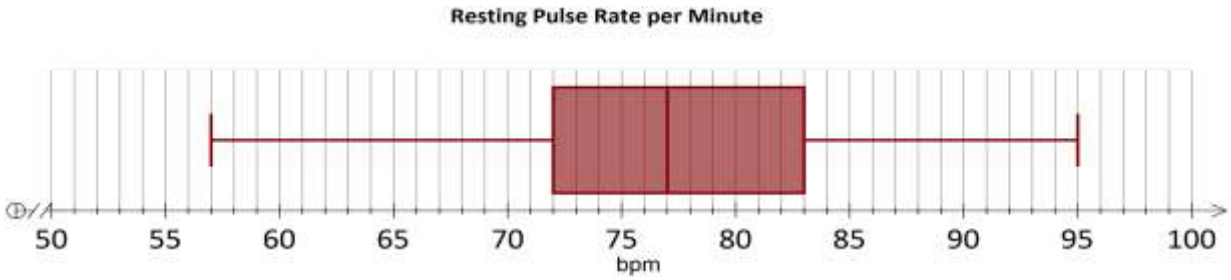
Heights of students



*Current Work CL5 (1): ___ / **12***

FURTHER CURRENT WORK (CL 5): Statistics

The box plot gives the resting pulse rate per minute of 44 Year 10 students.



1. What is the highest resting pulse rate per minute? _____
2. What was the **median** resting pulse rate per minute? _____
3. What is the **upper quartile** (UQ) resting pulse rate per minute? _____
4. What is the **lower quartile** (LQ) resting pulse rate per minute? _____
5. What is the **interquartile range** (IQR) resting pulse rate per minute? __
6. What **percentage** of resting pulse rate per minute were between 72 and 83 bpm? _____
7. What **percentage** of resting pulse rate per minute were between 57 and 72 bpm? _____
8. **How many** students tested had of resting pulse rate per minute were between 72 and 77 bpm? _____
9. **How many** students tested had of resting pulse rate per minute were between 72 and 95 bpm? _____
10. There are four words that we use to describe the shape or distribution of a set of data. Complete each of these four words:

    Sy_ _ _ _ _ _ _ _ _ _ **Sk _ _** **Uni _ _ _ _** **Bim _ _ _ _**

11. Which word(s) describe the shape of the resting pulse rate per minute?

*Current Work CL5 (2): ___ / **11***

Overall Results:

KS	*CL4-5*	*CL5(1)*	*CL5(2)*	*Total*	*Parent Signature:*
18	***7***	***12***	***11***	***48***	