TAURANGA GIRLS COLLEGE
YEAR 10 HOMEWORK SHEET
Series A Sheet 4
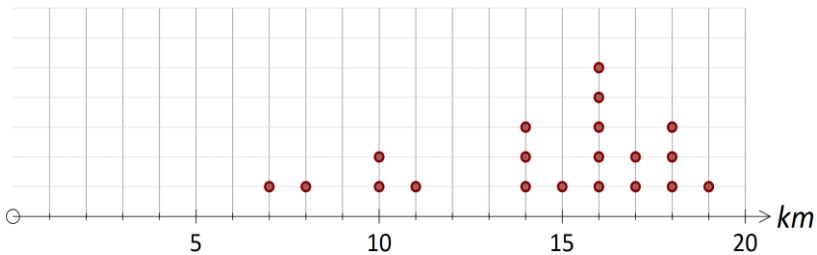*TGC Values: Respect, Participation, Pride*

Name: _____

Due Date: _____

KEY SKILLS:

1. In the number 785.1239 what digit is in the *hundredths* column? _____

2. Round 0.239 to the nearest *hundredth*
   _____

3. Write *seventeen hundredths* as a decimal
   _____

4. 3.2 m = _____ mm

5. How many *kilograms* are there in *one tonne*? _____

6. If p = 5 and q = 7 give the value of $3p + q^2$ _____

7. If 5p = 300, what is the value of p? _____

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

   23*m*

   10*m*

   _____cm

9. What is the *area* of the rectangle shown above?

   _____cm^2

10. Students who came to school by bus recorded how far they lived from school, in kilometres. The results are shown here:

Distance to school

a) What type of graph is this? _____

b) What was the *range* of distance? _____

c) What was the *median* distance? _____

d) Was the shape of distances symmetrical or skew? _____

Key Skills Total: _____ /13

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

A   Review …

Calculate

1. $5^4 =$

2. $^-5 - 56 \div ^-7 =$

Rounding

Round each number as required:

1. 21.89 to nearest tenth

2. 5.835 (2dp) =

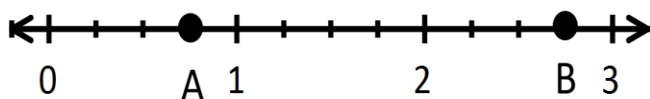**3.** $\sqrt{28.4} =$ (2dp)

Fractions

1. Complete this equivalent fraction:

$$\frac{2}{3} = \frac{}{18}$$

2. Simplify $\frac{20}{24} =$

3. For the points marked on this number line, write

0   A 1   2   B 3

A as a fraction =

B as an improper fraction =

B as a mixed number =

8. $\frac{1}{3}$ of 18 =

$\frac{3}{5}$ of 45 =

$\frac{3}{5} - \frac{1}{4} =$

$4\frac{3}{5} - \frac{1}{4} =$

B   Percentages …

1.   Complete this table:

Fraction	Percentage
$\frac{1}{2}$	
$\frac{1}{10}$	
$\frac{1}{4}$	
	20%
	75%

Finding Percentages
Without a calculator …..

1. 25% of 120kg = $\frac{1}{4}$ of 120

          =

2. 50% of $4.60 = ….. of $4.60

          =

3. 20% of 40cm = …… of 40cm

          =

With a calculator …. round appropriately

4. 17% of $600 =

5. 27% of $650 =

6. 13% of $68.20 =

Current Work CL4-5: ____ / 25

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

A   Review …

Calculate

1. $\sqrt{500}$ (2sf)

2. 12.5^4 (2sf)

3. $\dfrac{3.1 - 0.3}{7.1 - 2.4}$ (2sf)

4. $13\frac{1}{5} - 4\frac{1}{2} =$

5. Estimate 3.89 x 52.5

   ≈ …….. x ……

   =

Fractions

1. Which is bigger? $\dfrac{2}{3}$ or $\dfrac{3}{5}$

2. Calculate $\dfrac{5}{8}$ of $150 =

3. If 84 TGC students travel to Rotorua for a tournament and they make up ⅜ of the total number of students, how many students were there in total?

4. The local Op Shop sold $650 worth of goods in the morning. If this was ⅗ of the days sales, what was the value of the afternoon sales?

B   Percentages …

1. Complete this table:

Fraction	Percentage
$\dfrac{1}{8}$	
$\dfrac{1}{3}$	
	15%
	66⅔%

Finding Percentages
Without a calculator …..

2. 10% of 120kg =

   5% of 120kg =

   15% of 120kg =

   2½% of 120kg =

   17½% of 120kg =

3. 15% of $4.60 =

With a calculator …. round appropriately

4. James earns 2¾% interest on $4600. How much interest does he earn?

5. Discount $600 by 27% =

6. Increase 27% of $650 =

Current Work CL5-6: ____ /22

APPLICATIONS and TASK

*For each of these tasks you **must show your working.** Set out your solution in a clear and ordered manner. Your final step should be to write a sentence which gives your answer to the question. (One mark for the working and one mark for the correct answer)*

Situation

Linda has a small business making and selling jars of organic handcream and moisturiser. She sells the jars of handcream for $15 each, and moisturiser for $23 each.

Task One

At the beginning of the week she made 25 jars of handcream and 30 jars of moisturiser.

During the week she sold 60% of the jars of handcream and $\frac{4}{5}$ of the jars of moisturiser.

What was the total value of her sales for this week?

Task Two

At the beginning of another week she made 40 jars of handcream and 20 jars of moisturiser.

At the end of the week she had 30% of the jars of handcream left to sell and $\frac{1}{4}$ of the jars of moisturiser left to sell.

What was the total value of her sales for this week?

Task Three

At the beginning of another week she made a total of 50 jars of handcream and moisturiser altogether. If she made 14 jars of handcream and sold them all, but only sold $\frac{3}{4}$ jars of the jars moisturiser.

Calculate the total value of her sales for this week.

Applications Total: _____ / 6

Overall Results:

KS	CL4-5	CL5-6	APP	Parent Signature:
13	**24**	**18**	**6**	