TAURANGA GIRLS COLLEGE
YEAR 10 HOMEWORK SHEET
Series A Sheet 5
TGC Values: Respect, Participation, Pride

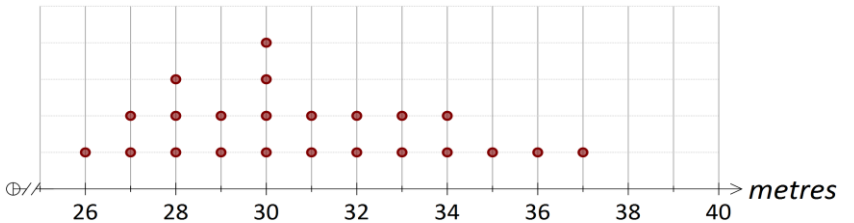**Name: _____**

Due Date: _____

KEY SKILLS:

1. In the number 8785.1239 what digit is in the *thousandths* column? _____

2. Round 0.679 to the nearest *hundredth*
   _____

3. Write *twenty-seven hundredths* as a decimal

   _____

4. 8½ km = _____ m

5. How many *kilograms* are there in *three tonnes*? _____

6. If p = 6 and q = 8 give the value of 3(p + q)   _____

7. If 2p = 150, what is the value of p?   _____

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

   35*m*

   20*m*

   _____cm

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

   _____cm^2

10. It was recorded how far some year 10 students could run from a standing start in 5 seconds.   The distances were taken to the nearest metre.

Distance in five seconds

a)   How many students ran? _____

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. $3^5 =$

2. $^-5 \times 56 + {}^-7 =$

3. $\dfrac{3}{4}$ of $54 =

4. $\dfrac{3}{4} - \dfrac{1}{3} =$

5. $\sqrt{128} =$ (1dp)

6. 15% of $650 =

B. More Percentages ….

1. Discount $30 by 15%

15% of $30 =

Final cost =

2. Increase $80 by 30%

30% of $80 =

Final cost =

3. $80 plus GST

GST = 15% of $80 =

Final cost =

4. 6 out of every 10 TGC students have their ears pierced. What percentage is this?

Fraction = $\dfrac{\quad}{10}$

Percentage is ….

5. 28 out of every 35 people have SKY TV. What percentage is this?

Fraction = $\dfrac{\quad}{\quad}$

Percentage is …

6. At a movie there were 67 adults and 83 children. What percentage of people at the movie were children?

Fraction = $\dfrac{\quad}{\quad}$

Percentage is …

7. 28 out of every 35 people have SKY TV. What percentage is this?

Fraction = $\dfrac{\quad}{\quad}$

Percentage is …

C. Ratios

In the diagram above give the ratio of:

1. Shaded to Unshaded sections

2. Shaded to Total sections

3. Unshaded to Total sections

Current Work CL4-5: _____ / 16

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

A   Review …
Calculate

1. $\sqrt{5080}$ (2sf)

2. 32.5^4 (3sf)

3. $9\frac{1}{5} - 4\frac{1}{3} =$

4. Estimate 39.2 x 61.5

   ≈ …….. x …….

   =

5. Calculate $\frac{3}{8}$ of $1650 =

6. In a jar of M&M's there are 120 black M&M's. They make up ⅜ of the total number of M&M's. How many M&M's are there in total?

7. Calculate 13.5% of $6820

8. James earns 3¾% interest on $5860. How much interest does he earn?

9. What is the full cost of an item marked $450 + GST?

10. The cost of a washing machine is $1280. In a sale it is reduced by 18%. What is the sale price?

11. The Chiefs won 9 out of their last 15 games. What percentage is this?

12. The cost of a dress was reduced from $168 to $150. What percentage reduction is this?

13. The cost of a dozen oysters last year was $12. This year it is $13. What percentage increase is this?

14. James pays $125 a week for rent. This is 35% of his total weekly pay. How much does James earn in a week?

Current Work CL5-6: ____ /14

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).* **Read the question carefully.**

Situation

Karen has a small business making and selling jars of jams and pickles. She sells the jars of jam for $4 each, and jars of pickles for $5 each.

Week One

This week she made 25 jars of jam and 30 jars of pickles. During the week she sold 40% of the jars of jam and $\frac{3}{5}$ of the jars of pickles. *What was the total value of her sales for this week?*

Week Two

This week she made 65 jars of produce altogether. She made 40 jars of jam. At the end of the week she had 40% of the jars of jam left to sell, and had only sold $\frac{1}{5}$ of the jars of pickle. *What was the total value of her sales for this week?*

Week Three

This week she made 40 jars of jam and half this number of jars of pickles. At the end of the week she had 30% of the jars of jam left to sell, and $\frac{1}{4}$ of the jars of pickle left to sell. *What was the total value of her sales for this week?*

Applications Total: _____ / 6

Overall Results:

KS	CL4-5	CL5-6	APP	*Parent Signature:*
13	*16*	*14*	*6*	

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