TAURANGA GIRLS COLLEGE
YEAR 10 HOMEWORK SHEET
Series A Sheet 1

Name: _____

Due Date: _____

TGC Values: Respect, Participation, Pride

KEY SKILLS:

1. In the number 273.415 what digit is in the *hundredths* column? _____

2. Round 0.721 to the nearest *tenth* _____

3. Write *two tenths* as a decimal _____

4. Complete this equivalent fraction: $\dfrac{1}{7} = \dfrac{\quad}{35}$

5. 7½ m = _____ mm

6. How many kilogrammes are there in *one tonne*? _____

7. How many *millilitres* are there in *one litre*? _____

8. If p = 4 and q = 6 give the value of $(p + q)^2$ _____

9. Calculate:
a) 10% of 160 =
b) 75% of 200 =

10. Find $\dfrac{3}{5}$ of 30 =

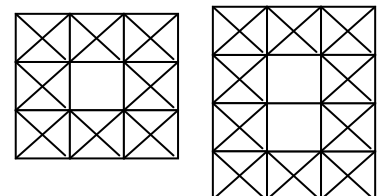**11.** What is the *perimeter* of this rectangle?

8cm

3cm

_____cm

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

_____cm^2

13. Complete the table for this pattern:

Plain tiles, P	1	2	3	4
Coloured tiles, C	8			

a) Write a rule connecting the number of plain tilers and coloured tiles using the letters *P* and *C.*

b) How many coloured tiles are needed for 50 plain tiles?
    C =

Key Skills Total: _____ /16

CURRENT WORK (CL 4 – 5): Number

A   Use your calculator ...

1. 25^2 =

2. 5^3 =

3. 16 squared =

4. 6 cubed =

5. $\sqrt{64}$

6. 2^6 =

7. 6 x (8 – 3) =

8. 24 ÷ (2 + 2) =

9. (9 – 5) x (5 + 3) =

10. ⁻7 + ⁻4 =

11. 8 – ⁻7 =

12. ⁻42 x ⁻7 =

13. (⁻15)² =

14. ⁻6 + ⁻4 x 2 =

15. $\dfrac{3}{7}$ + $\dfrac{1}{7}$

16. $\dfrac{3}{5}$ + $\dfrac{1}{4}$ =

B Place Value ...

1. In the number 6375.214 which number is in the

a) ones column

b) tens column

c) thousands column

d) tenths column

e) hundredths column

2. In the number 156.372 which number is in

a) the tenths column

b) the thousandths column

3. Complete this table

	Decimal	Fraction
eg	0.7	$\dfrac{7}{10}$
a)	0.3	
b)		$\dfrac{9}{10}$
c)	0.09	
d)		$\dfrac{3}{100}$
e)		$\dfrac{13}{100}$
f)	0.27	

C   Rounding.......... Round:

1. 382 to the nearest ten

2. 379 to the nearest hundred

3. 4320 to the nearest thousand

4. 85 to the nearest ten

5. 62.1 to the nearest whole number

6. 6.17 to the nearest tenth

7. 37.23 to the nearest tenth

8. 67.853 to the nearest tenth

9. 0.618 to the nearest hundredth

Current Work CL4-5: ____ / 38

CURRENT WORK (CL 5 – 6): Number

A Everyday calculations ...
(Show your calculation and use your calculator to get the solution)

1. Find the cost of:
a) 5kg of bananas at $2.90 per kg

...... x .... = ...

b) 8kg of sausages at $8.95 per kg

c) 12 ice creams at $2.40 each

d) 1 dozen coke at $1.40 each

2. How many chocolate bars can be bought with $60 if they are $2.50 each?

3. How many pens can you buy for $36 for they are 90c each?

B   Use your calculator ...

1.   1.6 squared =

2. $\sqrt{625}$

3. 2.1^6 =
(to the nearest whole number)

4. $\dfrac{6 + 12}{2 + 2}$

5. $\dfrac{-6 + 12}{2 \times 3}$

6. $\sqrt[3]{125}$

7. $\dfrac{3}{5} + \dfrac{1}{4} =$

8. $\dfrac{3}{8} - \dfrac{2}{7} =$

9. $2\frac{1}{5} + 3\frac{1}{4} =$

10. $3\frac{1}{4} \times 5 =$

C Place Value ... Complete this table

	Decimal	Fraction
a)		$\dfrac{5}{1000}$
b)	0.103	
c)		$\dfrac{137}{100}$
	Decimal	**Improper Fraction**
d)	14.2	
e)	9.103	

D Rounding.......... Round

1. 456,320 to the nearest ten thousand

2. 6,177,812 to the nearest million

3. 0.61348 to the nearest ten thousandth

Current Work CL5-6: ___ / 24

TAURANGA GIRLS COLLEGE YEAR 10 HOMEWORK SHEET Series A   Sheet 1

APPLICATIONS and TASKS

*For each of these tasks you **must show your working.***
(One mark for the working and one mark for the correct answer)

Task One
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. She made 25 jars of
handcream and 30 jars of moisturiser.
*What was the total value of her sales for this
week?*
Linda's total sales were: _____

Task Two
Mary has a small business making and selling jars
of jams, pickles and marmalade. She sells the jars
of jam for $4.60 each, jars of pickles for $5.20 each
and jars of marmalade for $3.80 each. She sold 45
jars of jam and 52 jars of pickles and 18 jars of
marmalade.
*What was the total value of her sales for this
week?*
Mary's total sales were: _____

Task Three
Ella and Sarah went
shopping at *Fitwell
Clothing*. The prices
were:

   T-shirts, $24   Skirts, $68
   Tops, $29.50   Sweatshirts, $30

Ella bought two T-shirts, a Skirt and two Tops and
Sarah bought three tops, a sweatshirt and four T-
shirts. Who spent the most and by how much?
_____ spent the most, by an extra $ ____

Applications Total: _____ / 6

Overall Results:

KS	CL4-5	CL5-6	APP	Parent Signature:
16	38	24	6	