Name: _____

Due Date: _____

## KEY SKILLS:

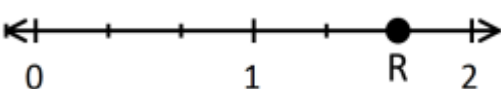**1.** Write the number four million and sixty thousand

_____

**2.** Round 289,600 to the nearest *hundred thousand*

_____

**3.** Write *thirteen and seven hundredths* as a *decimal*

_____

**4.** Write $\frac{47}{6}$ as an mixed number

**5.** Simplify the fraction $\frac{35}{45}$

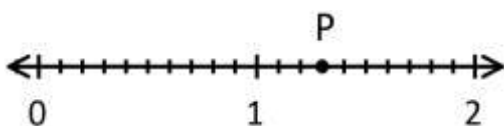**6.** Insert < or > to make a true statement:   1.3 ____ $\frac{17}{10}$

**7.**



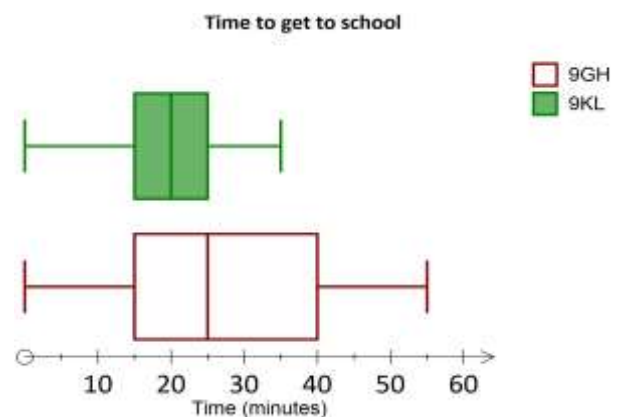Write the point R as a

**a)** mixed number

**b)** Improper fraction

**8.** Write the point P as a *decimal*



**9.** Calculate 95% of $640

**10.** Calculate $520 + GST

**11.**



Time to get to school

The box plot above records the time, in minutes, students in 9GH and 9KL spent on homework last night. The times were recorded to the nearest five minutes.

**a)** What was the *median* time for 9GH?

**b)** What was the *inter quartile range* time for 9GH?

**c)** What percentage of students in 9KL spent less than 15 minutes on homework last night?

**d)** Which class, *on average*, spent more time on homework?

*Key Skills Total: _____ / 15*

# REVIEW and CURRENT WORK (CL 4 – 5): Measurement

**A.  Number and Algebra Review**

1.  $\dfrac{3}{4} - \dfrac{2}{3} =$

2.  If a = 6 and c = ⁻4, find the value of 3ac

3.  5p + 4q – p – 2q =

4.  $\dfrac{15n}{20n} =$

5.  Expand 3p(5p – 6 ) =

6.  Factorise   8p + 32

    = 8( ………. + ……….)


**B.  Measurement Review**

1.  8.2m = ………….. mm

2.  5700g = ……….. kg

3.  6.7L = ………….. mL

4.  3.5 tonnes = ………….. kg

5.  Find the circumference:

    C = π x D

    =

    =            (1dp)
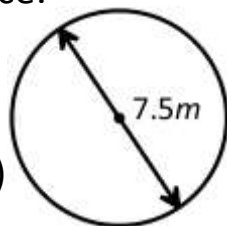
6.  Find the area of these shapes:

a)

b)  A = π x R²

    =

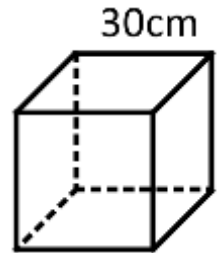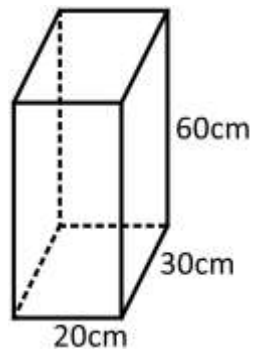    =            (1dp)
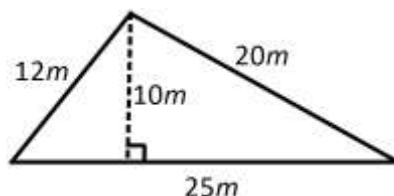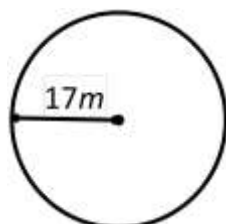
7.  Find the volume of these shapes.
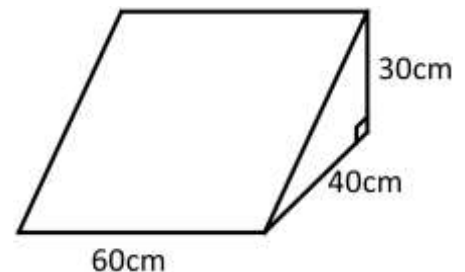
a)  A cube of side 30cm

b)

c)

8.  Find the surface area of a cube of side length 50cm

*Current Work CL4-5: ___ / 17*

TAURANGA GIRLS COLLEGE YEAR 10 HOMEWORK SHEET Series D          Sheet 10D5
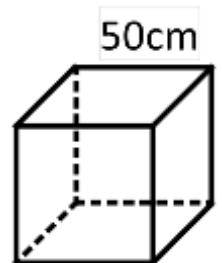
# REVIEW and CURRENT WORK (CL 5 – 6): Measurement

**A. Number and Algebra Review**

1. Discount $56.20 by 15%

2. Write 3,450,000 in standard form.

3. $8n^2 - 18n - 8n - 2n^2 =$

4. $\dfrac{28a^6 c^8}{40ac^2} =$

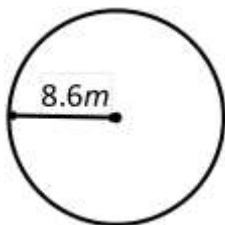5. Expand and simplify $(x - 7)^2$

=

=

**Factorise:** $80mn^2 + 16nm$

=

**B. Measurement Review**

1. 2640 m = .................. km

2. 0.36 kJ = ................... J

3. $15600m^2$ = ………………….. ha

4. Find the circumference

   C =    π x D

   =

   =

8.6m

5. Find the area

   A  =   π x R$^2$

   =

   =

830mm
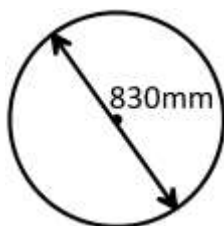
**C. Volume:** Find the volume of these shapes. Write the unit for each.

1.

30cm
40cm
0.5m
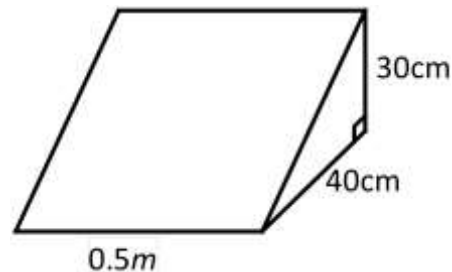
2. (Radius 40cm)

40cm
80cm
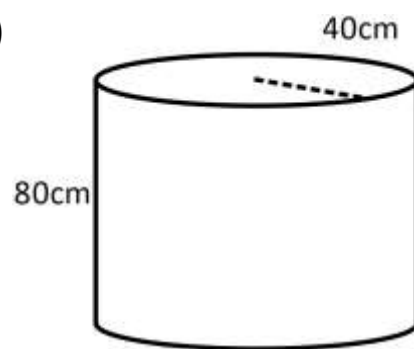
3. Calculate the capacity of the triangular prism in Q1 in litres

4. Calculate the capacity of the cylinder in Q2 in litres.

*Current Work CL5-6: ___ /15*

**TAURANGA GIRLS COLLEGE YEAR 10 HOMEWORK SHEET Series D       Sheet 10D5**

# APPLICATIONS and TASKS

*For each of these tasks you **must show your working.*** Set out your solution in a clear and ordered manner. **Read the question carefully.**
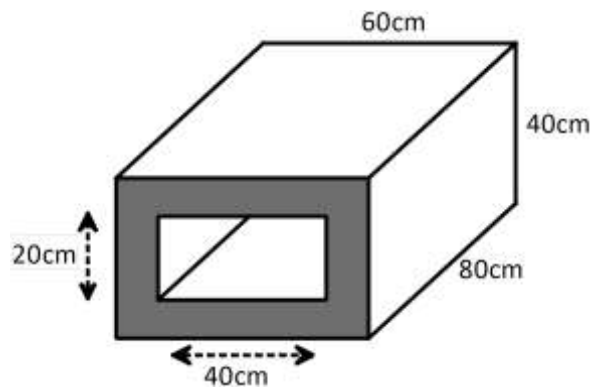
**Task One** (2 marks): The swimming pool
a) Calculate the volume of the swimming pool.
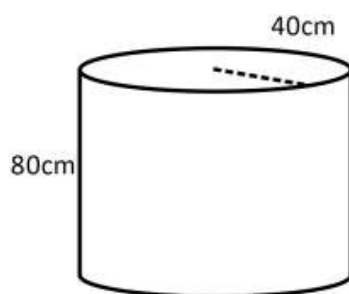b) What is the total area of the inside walls and floor?
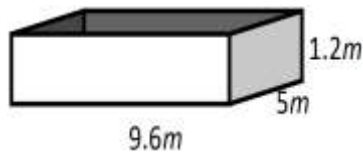


**Task Two** (2 marks): Calculate the volume of this shape.



**Task Three** (2 marks) Calculate the surface area of this cylinder. The radius is 40cm and the height is 80cm.



*Applications Total: _____ / 6*

## *Overall Results:*

| KS | CL4-5 | CL5-6 | APP | Parent Signature: |
|:---:|:---:|:---:|:---:|:---|
| | | | | |
| *13* | *30* | *22* | *6* | |

**TAURANGA GIRLS COLLEGE YEAR 10 HOMEWORK SHEET Series D        Sheet D5**