



## Year 10 Maths B Homework Sheet No.08

To be completed on loose-leaf paper.

Due date: \_\_\_\_\_

Q1. Evaluate the following

a.  $3 + 5 \times 10$

b.  $4 - 6 \div 2$

c.  $7 \times 10 \div 5$

Q2. Solve the following

a.  $\frac{12}{15} + \frac{4}{15}$

b.  $\frac{3}{7} - \frac{2}{7}$

c.  $\frac{4}{12} + \frac{1}{3}$

Q3. If  $x = 3$  and  $y = 5$  find the value of the following

a.  $3x + 5y$

b.  $y(x + y)$

c.  $2x - 3y$

Q4. Complete the following conversions

a.  $7.2\text{m} =$  cm

d.  $46\text{mm} =$  cm

g.  $34\text{mm}^2 =$  cm<sup>2</sup>

b.  $7890\text{m} =$  km

e.  $3.2\text{cm} =$  mm

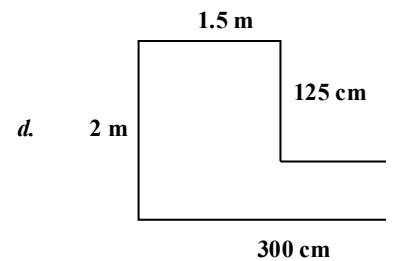
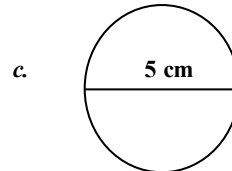
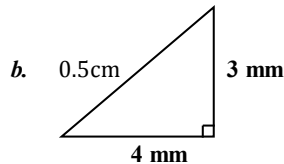
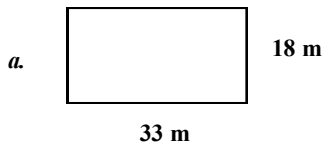
h.  $3\text{cm}^3 =$  mm<sup>3</sup>

c.  $567\text{cm} =$  m

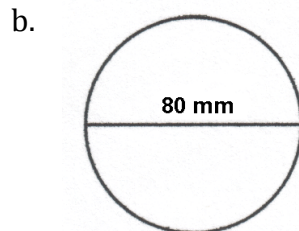
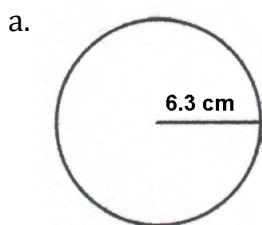
f.  $11\text{m}^2 =$  cm<sup>2</sup>

i.  $1.1\text{km}^2 =$  cm<sup>2</sup>

Q5. Find the **perimeter** and **area** of each of the following:

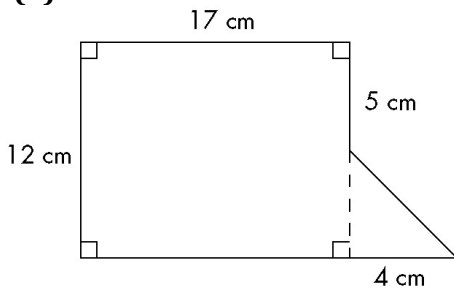


Q6. Find the **circumference** and **area** of each of the following circles:

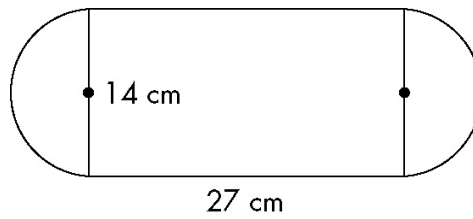


Q7. Find the area of each of the following composite shapes.

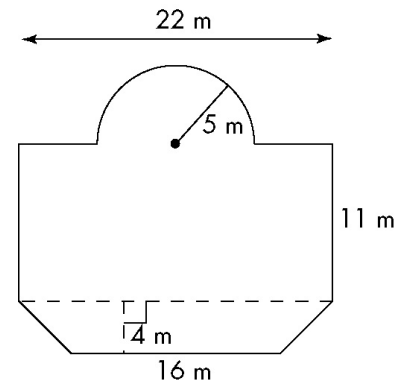
(a)



(b)



(c)



Q8. Describe the difference between qualitative and quantitative data.

Q9. The heights of 30 year 10 students are summarised in the table below. Use this data to find the **mean** distance travelled to school.

\*Hint: Calculate the midpoint (x) and the  $xf$

$$\text{Mean} = \frac{\text{sum of } xf}{\text{sum of } f}$$

Distance	Frequency (f)
140 - < 144	3
145 - < 149	9
150 - < 154	6
155 - < 159	9
160 - < 164	1
165 - < 169	2
Total = 30	