



Show ALL working.

To be completed on loose-leaf paper.

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

## 1 Multiplying and dividing by powers of 10

1. Calculate each of the following.

a.  $32 \div 100$

b.  $0.04 \times 1000$ .

## 2 Converting units of length

2. Convert each of the following measurements.

a. 34 mm to cm

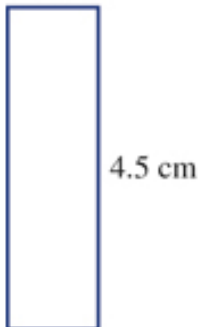
b. 1.6 m to mm

c. 4500 cm to km

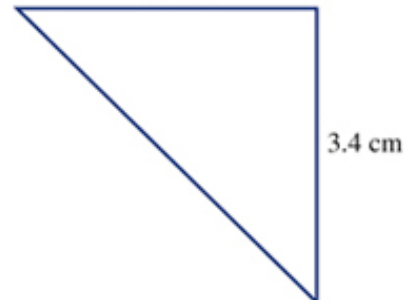
## 3 Area of squares, rectangles and triangles

3. Find the area of each of the following shapes.

a. 1.3 cm

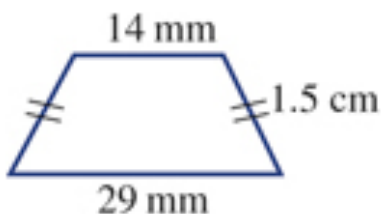


b. 4.6 cm

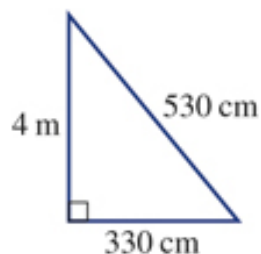


4 Find the perimeter of the following shapes (you might have to convert the lengths into the same units first).

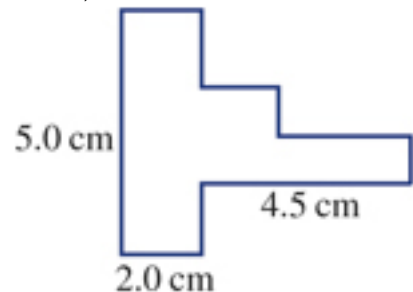
a)



b)



c)



5 A particular type of chain is sold for \$2.25 per metre. What is the cost of 2.4 m of this chain?

6 Fabric is sold for \$7.95 per metre. How much will 4.8 m of this fabric cost?

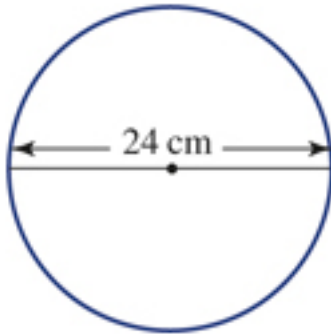
7 Maria needs 3 pieces of timber of lengths 2100 mm, 65 cm and 4250 mm to construct a clothes rack.

a. What is the total length of timber required, in metres?

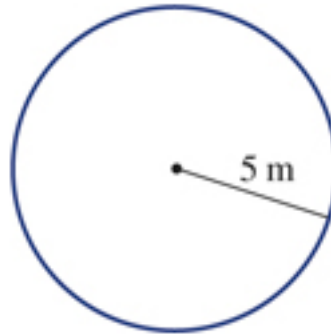
b. How much will the timber cost at \$3.80 per metre?

8 Find the circumference of each of the following circles. Give your answers correct to two decimal places.

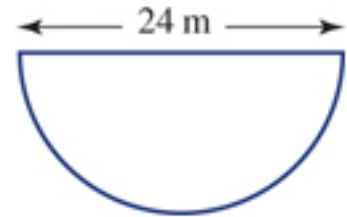
a.



b.



c.



9 Calculate each of the following, using the correct order of operations.

a.  $23 - 4 \times 3$

b.  $2^3 + \sqrt{16} \times 5$

c.  $\sqrt{3^2 + 4^2}$

d.  $18 \div 2 \times 3$

e.  $\sqrt{3 \times 12} + 3^2$

f.  $(8 - 3)^2 + 8^2 - 3^2$