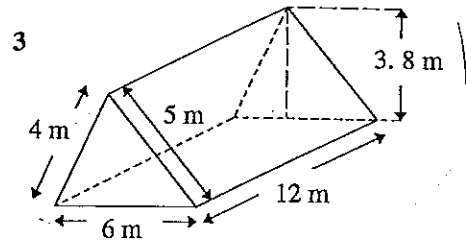
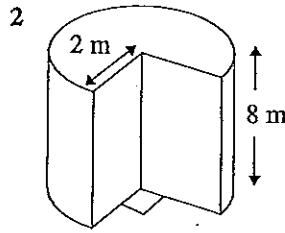
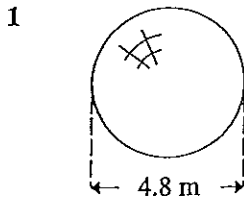


Measurement

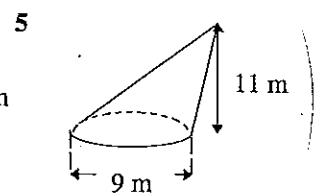
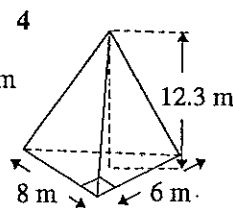
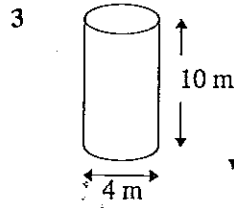
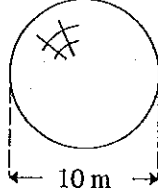
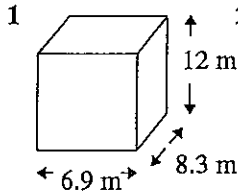
A Measurement: Surface area of solids

Find the total surface area of these solids:



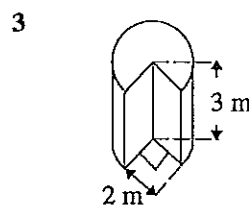
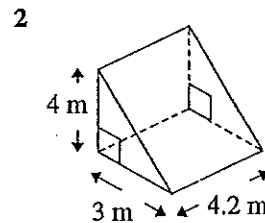
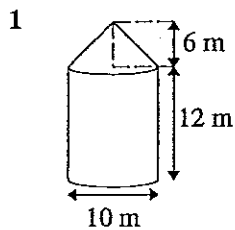
B Measurement: Volume of solids

Find the volume of these solids:



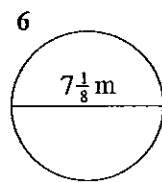
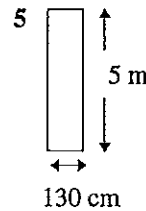
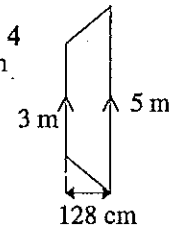
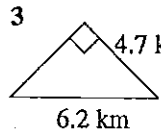
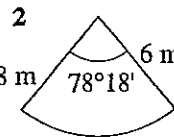
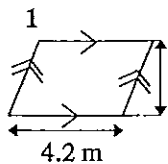
C Measurement: Drawing accurate nets of solids

What nets are required to make these solids:



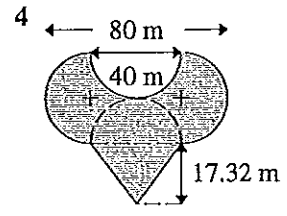
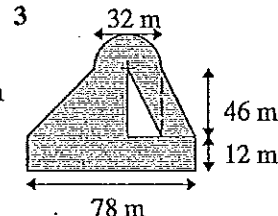
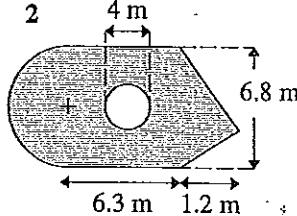
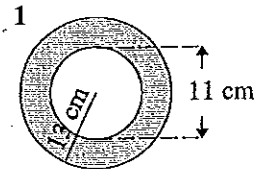
D Measurement: Area of simple shapes

Find the area of these shapes:



E Measurement: Composite areas

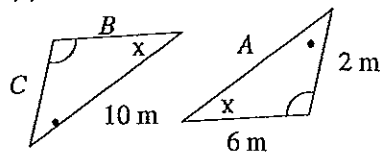
Find the shaded area:



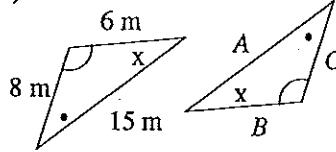
F Measurement: Similar and congruent triangles

1 Find the missing lengths in these congruent triangles:

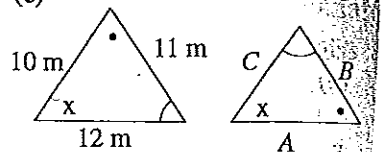
(a)



(b)

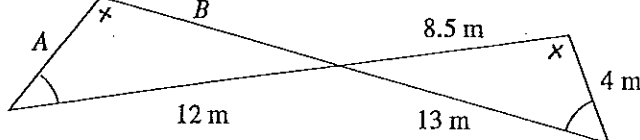


(c)

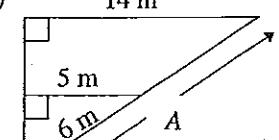


2 Find the missing lengths:

(a)

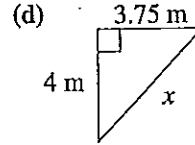
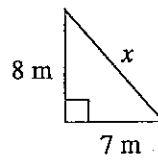
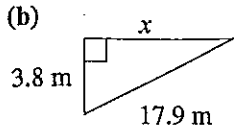
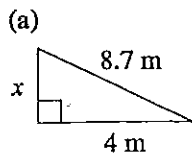


(b)



G Measurement: Pythagoras' theorem in two dimensions

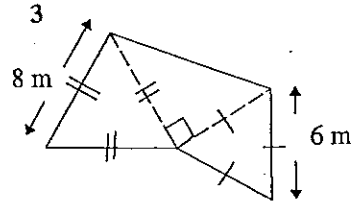
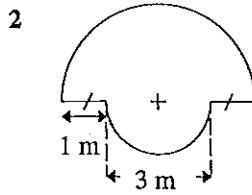
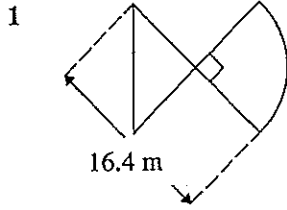
1 Find the missing lengths to two decimal places:



2 Find the side length of the largest square to fit inside a circle with radius 6 cm.

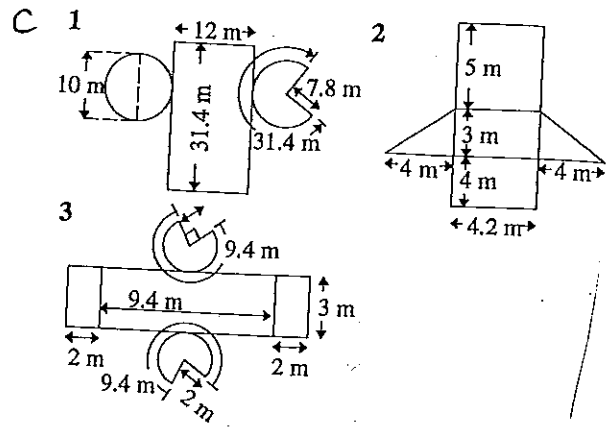
H Measurement: Perimeter

Find the perimeter of:



Measurement Answers

- A 1 72.38 m^2 2 126.25 m^2 3 202.8 m^2
 B 1 687.24 m^3 2 523.6 m^3 3 125.7 m^3
 4 98.4 m^3 5 233.3 m^3



- D 1 7.56 m^2 2 24.60 m^2 3 9.635 km^2
 4 5.12 m^2 5 6.5 m^2 6 39.87 m^2
 E 1 435.90 cm^2 2 52.51 m^2 3 3500.12 m^2
 4 2574.72 m^2

- F 1 (a) $A = 10 \text{ m}$ (b) $A = 15 \text{ m}$ (c) $A = 10 \text{ m}$
 $B = 6 \text{ m}$ $B = 6 \text{ m}$ $B = 11 \text{ m}$
 $C = 2 \text{ m}$ $C = 8 \text{ m}$ $C = 12 \text{ m}$
 2 $A = 3.69 \text{ m}$ (a) $A = 16.8 \text{ m}$
 $B = 7.85 \text{ m}$

- G 1 (a) 7.73 m (b) 17.49 m
 (c) 10.63 m (d) 5.48 m
 2 8.49 cm
 H 1 57.28 m 2 14.57 m 3 38 m