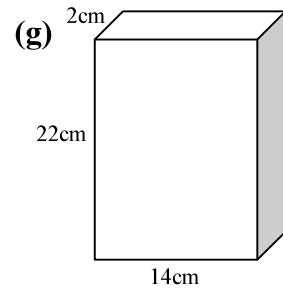
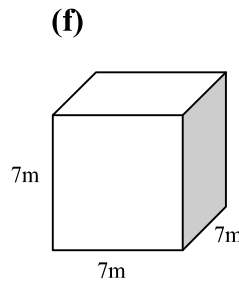
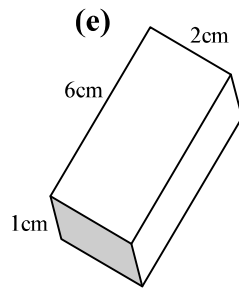
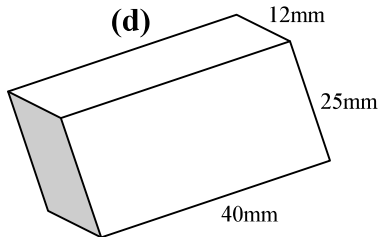
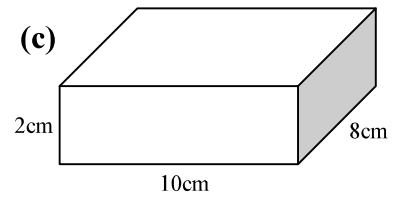
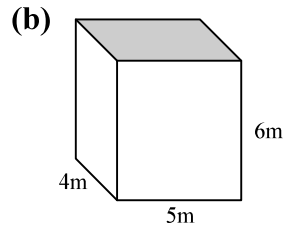
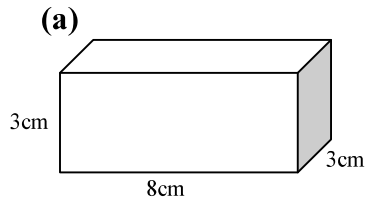


Calculating the volume of a prism

1. Calculate the volume of each of the cuboids below:



2. Calculate the volumes of the cuboids measuring:

(a) 12cm by 8cm by 9cm

(b) 18mm by 12mm by 3mm

(c) 50cm by 20cm by 5cm

(d) 15m by 7m by 8m

(e) 11mm by 9mm by 2mm

(f) 4.3cm by 2.2cm by 10cm

3. Calculate the volumes of the cubes of side:

(a) 6cm

(b) 4mm

(c) 14cm

(d) 23mm

4. Convert each of the following volumes in *cubic centimetres* into *litres*:

(a) 3000cm^3

(b) 2400cm^3

(c) 12600cm^3

(d) 600cm^3

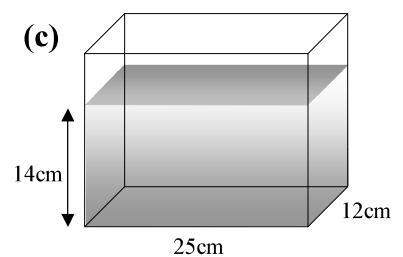
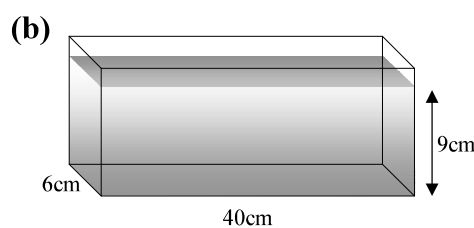
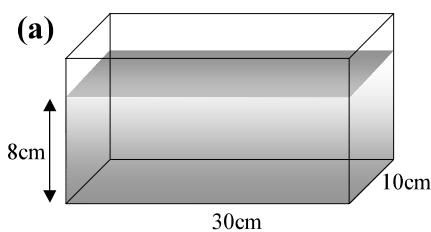
(e) 1460cm^3

(f) 480cm^3

(g) 320000cm^3

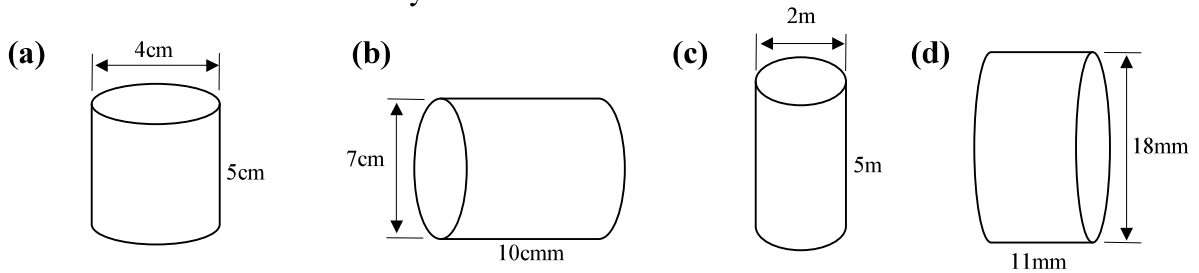
(h) 2565cm^3

5. Calculate the volume of water in each fish tank below, giving your answer in *litres* :

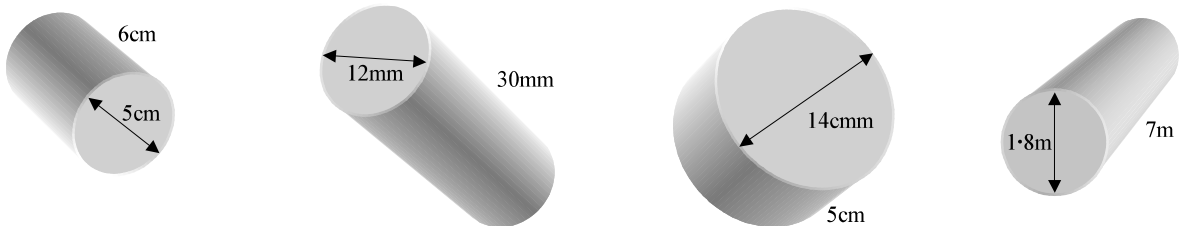


Calculating the volume of a cylinder

1. Calculate the volume of each cylinder below:

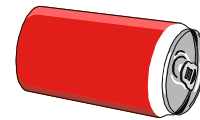


2. Calculate the volume of each cylinder below :



3. The drinks can opposite is cylindrical in shape.

Calculate its volume (in ml) if it has a diameter of 6cm and a length of 11.68cm . Give your answer to the nearest millilitre.



4. Six cola-cans each with a diameter of 6.8cm and a height of 9.183cm are sold together in an economy pack.

Calculate the total volume of cola in the six-pack.

Answer to the nearest millilitre.



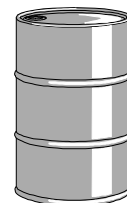
5. A container for holding coffee is cylindrical in shape.

Given that it has a diameter of 8cm and a height of 15cm calculate its volume in cubic centimetres.



6. An oil drum has a diameter of 66cm and a height of 105.3cm.

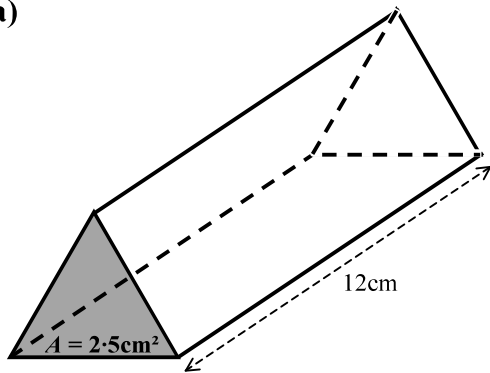
Calculate the capacity of the drum to the nearest litre.



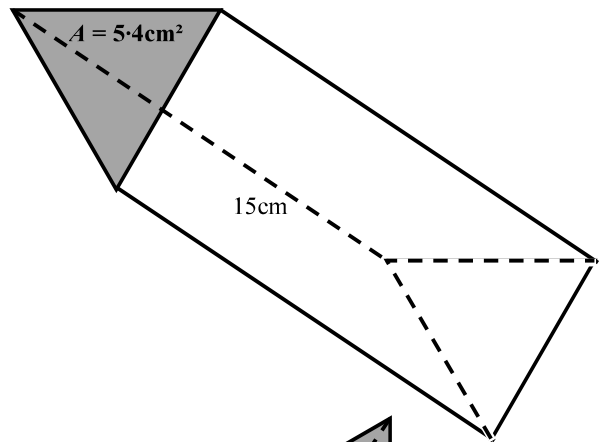
Calculating the volume of a triangular prism

1. Calculate the volumes of these triangular prisms

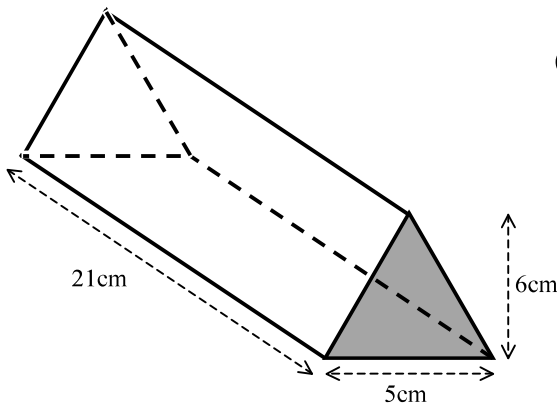
(a)



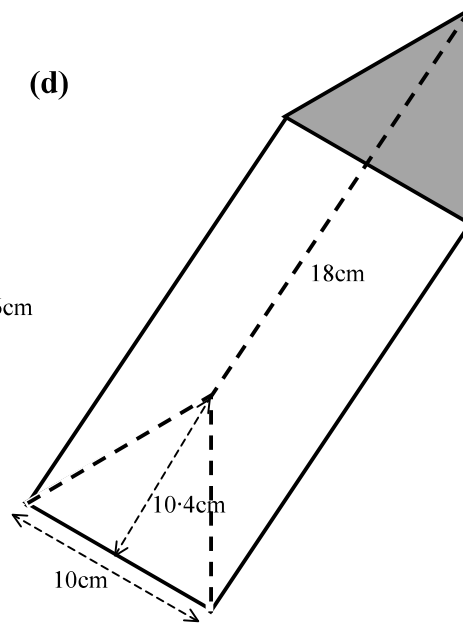
(b)



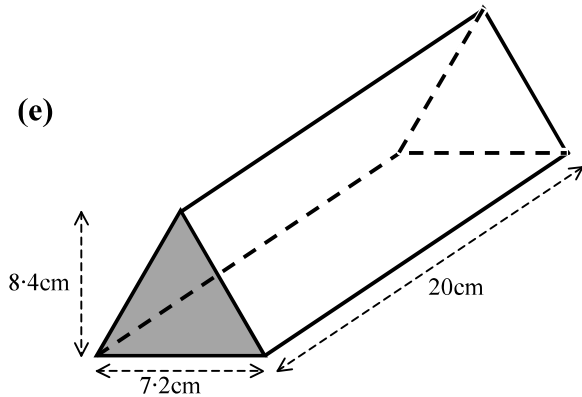
(c)



(d)



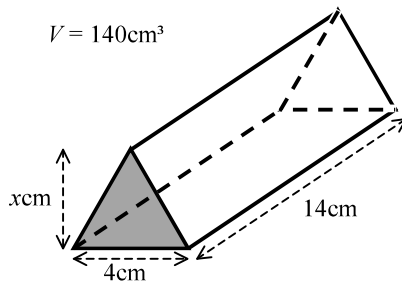
(e)



2. Calculate the side marked x in these triangular prisms given the volume.

(a)

$$V = 140\text{cm}^3$$



(b)

$$V = 504\text{cm}^3$$

