

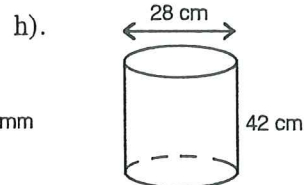
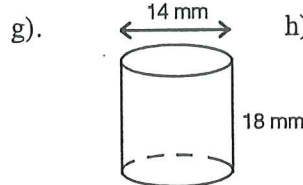
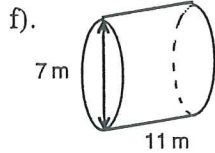
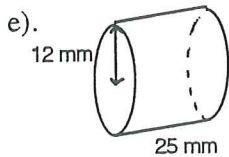
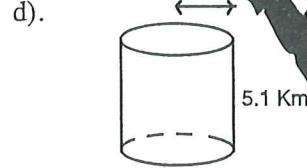
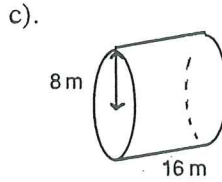
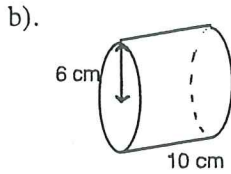
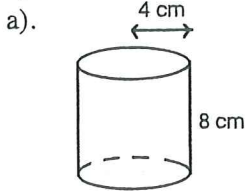


## Prisms 2.

Take  $\pi = 3.14$  where necessary.

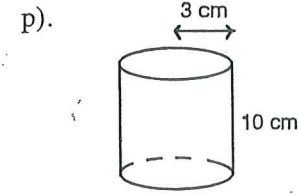
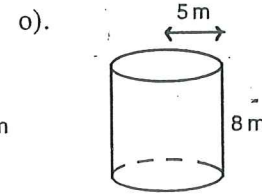
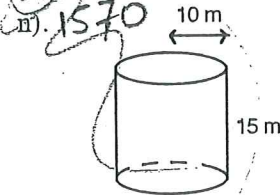
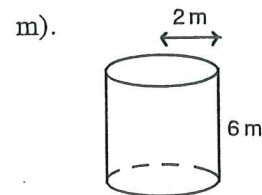
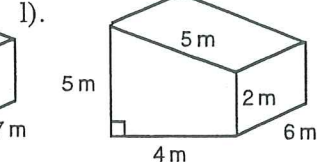
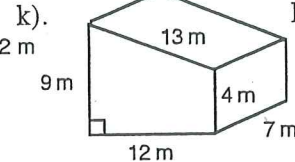
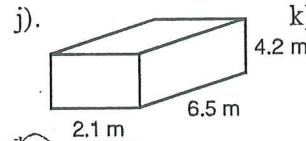
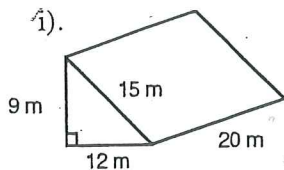
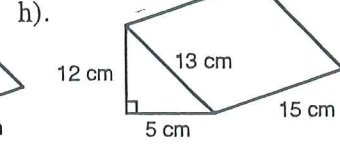
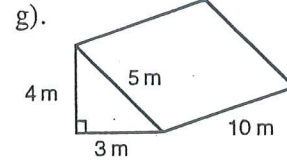
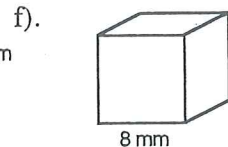
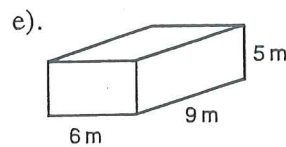
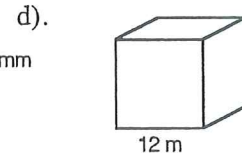
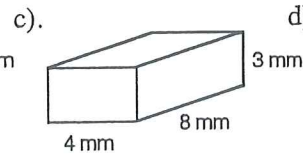
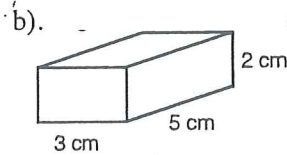
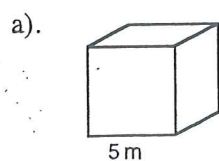


1). Find the **curved surface area** of each of these cylinders.



2). Find the **total surface area** of the cylinders above.

3). For each of the following solids find i). the volume, ii). the total surface area.

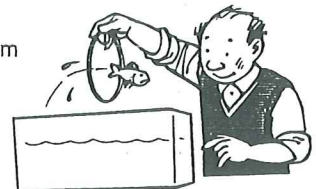
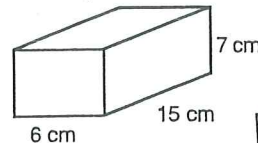


4). A rectangular box has a base 15 cm by 6 cm.

a). What is the area of the base ?

The height is 7 cm.

b). What is the volume of the box ?

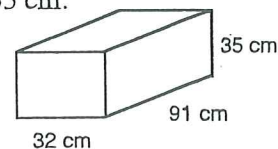


5). Billy buys a fish tank. The dimensions are 32 cm by 91 cm by 35 cm.

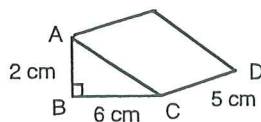
a). Calculate the volume of the fish tank in  $\text{cm}^3$ .

b). How many litres of water will it hold when full ?

(  $1000 \text{ cm}^3 = 1 \text{ litre}$  )



6).



The diagram shows a triangular prism.

a). Calculate the area of triangle ABC.

b). Calculate the volume of the prism.