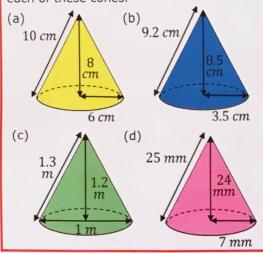
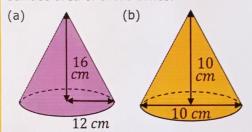
## **Volume and Surface Area of Cones**

Find the volume and total surface area of each of these cones.



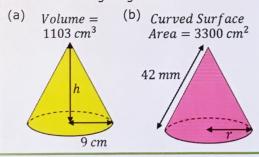
- (a)  $V = 301.6 \text{ cm}^3$  $A = 301.6 \text{ cm}^2$
- (b) V = 109.0 cm<sup>3</sup> A = 139.6 cm<sup>2</sup>
- (c)  $V = 0.31 \,\text{m}^3$  $A = 2.83 \,\text{m}^2$
- (d)  $V = 1231.5 \text{ mm}^3$  $A = 703.7 \text{ mm}^2$

Find the slanted height and curved surface area of these cones.



- (a) l = 20 cm $A = 754.0 cm^2$
- (b) l=11.18cm A=175.6cm<sup>2</sup>

Find the missing lengths.



- (a) 13cm
- (b) 25cm

- (a) A cone has a slanted height of 26~cm and a curved surface area of  $260\pi~cm^2$ . Find its volume.
- (b) A cone has a radius of  $8.5\ cm$  and a volume of  $1059\ cm^3$ . Find its total surface area.
- (a)  $r = 10 \text{ cm} \quad h = 24 \text{ cm}$  $V = 800 \pi \text{ cm}^3$
- (b) h = 14cm l= 16.38cm A = 664.4cm<sup>2</sup>