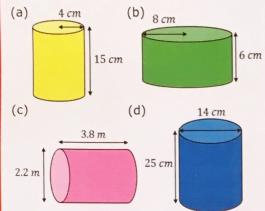
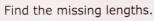
Volume and Surface Area of Cylinders

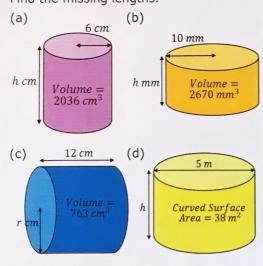
Find the volume and total surface area of each of these cylinders.



- (a) Find the volume and surface area of a soup tin with a radius of 4.5 cm and a height of 12.5 cm.
- (b) Find the volume and **curved** surface area of a glue stick with a diameter of 26 mm and a height of 70 mm.

- (a) $V = 754.0 \text{ cm}^3$ $A = 477.5 \text{ cm}^2$
- (b) $V = 1206.4 \text{ cm}^3$ $A = 703.7 \text{ cm}^2$
- (c) $V = 14.4 \text{ m}^3$ $A = 33.9 \text{ m}^3$
- (d) $V = 3848.5 \text{ cm}^3$ $A = 1407.4 \text{ cm}^2$
- (a) $V = 795.2 \text{ cm}^3$ $A = 480.7 \text{ cm}^2$
- (b) $V = 37165.0 \text{ mm}^3$ $CA = 5717.7 \text{ mm}^2$





- (a) h= 18 cm
- (b) h= 8.5 mm
- (c) r= 4.5cm
- (d) h = 2.42m

A cylinder has a height of 16 cm and a curved surface area of $452 cm^2$. Find its volume.