**Volume and Surface Area of Cylinders**

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

(a) (b)

(c) (d)



(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.

Find the missing lengths.

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

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