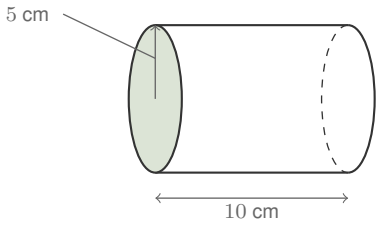
Use the π key unless a question says otherwise. Give answers to one decimal place where they are not exact.

1 Find the volume of this cylinder.

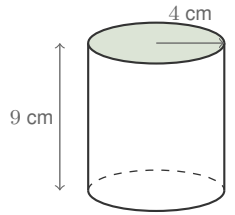


(a) Find the area of the circular cross-section (2)

(b) Find the volume (1)

(3 marks)

2 Find the volume of this cylinder.



(a) Write down which measurement is the length the circle has been dragged (1)

(b) Find the volume (2)

(3 marks)

3 Find the volume of each cylinder. **Two of them give the diameter.**

(a) radius 3 cm, length 12 cm (1)

(b) radius 6 cm, length 25 cm (1)

(c) **diameter** 9 cm, length 20 cm (2)

(d) **diameter** 58 mm, length 350 mm (2)

(6 marks)

4 A cylindrical tin of beans has radius 3.5 cm and height 11 cm.

(a) Find its volume (2)

(b) A second tin has the same height but twice the radius. **Without calculating, say how many times bigger its volume is.** (2)

(4 marks)