$1$ litre $= 1000$ cm$^3$. Use the $\pi$ key unless a question says otherwise. Give answers to one decimal place where they are not exact.

**1** Write each volume in litres.

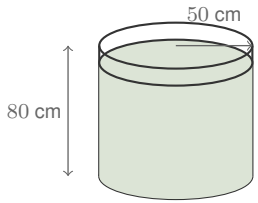
(a) $5000$ cm$^3$ (1)

(b) $28\,500$ cm$^3$ (1)

(c) $1$ m$^3$ (2)

**(4 marks)**

**2** A cylindrical tank has radius $50$ cm and depth $80$ cm.




(a) Find its volume in cm$^3$ (2)

(b) Find its capacity in litres (1)

(c) A tap fills it at $5$ litres a minute. **Find how long it takes to fill, to the nearest minute.** (2)

**(5 marks)**

**3** A rectangular water trough is $2$ m long, $60$ cm wide and $40$ cm deep.

(a) **Write all three measurements in centimetres.** (1)

(b) Find its capacity in litres (3)

**(4 marks)**

**4** A water tank has two cylindrical sections, one on top of the other. Both are $80$ cm deep. The bottom section has radius $50$ cm and the top has radius $20$ cm.

(a) Find the volume of the bottom section (2)

(b) Find the volume of the top section (2)

(c) Find the total capacity in litres (2)

(d) A tap fills it at $5$ litres per minute. **Find how long it takes to fill, to the nearest minute.** (2)

**(8 marks)**