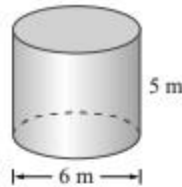Complete the following to find the capacity, in kilolitres, of a cylindrical tank with diameter 6 m and height 5 m.
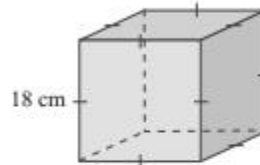
Volume = area of ____ × ____

$= (\pi \times 3 \times$ ____ $) \times$ ____ m³
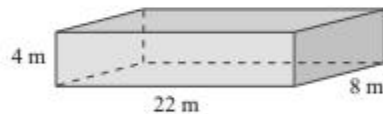
$\approx$ ____ m³

Capacity $\approx$ ____ kL

For the cube shown, find:

a   the volume in cm³

b   the capacity in millilitres

c   the capacity in litres.

A rectangular prism measures 22 m by 4 m by 8 m. Find:

a   its volume in cm³

b   its capacity in millilitres

c   its capacity in litres

d   its capacity in kilolitres.

How much water can a cylindrical bottle cap hold if it has a diameter of 2.8 cm and a height of 1.1 cm? Write your answer in millilitres.

A hemispherical bowl has a diameter of 24 cm. What is its capacity in litres?

Find the capacity, in megalitres, of a dam that has a cross-sectional area of 5000 m² and average depth of 8 m.

Aileen has two cylindrical vases. The first vase has a radius of 5 cm and a height of 10 cm. The second vase has a diameter of 6.5 cm and a height of 22 cm. Which vase holds more, and by how much? Write your answer in millilitres.