Cuboids and boxes

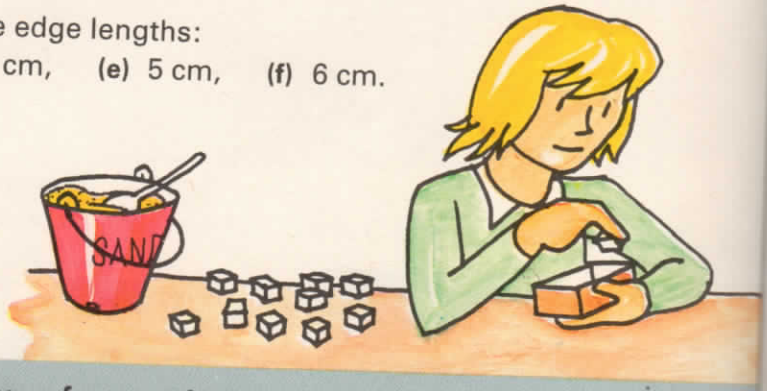
1 (a) Find the volume of the cuboids **A**, **B**, **C**, and **D**.

(b) Give another name for cuboid **D**.

Cuboid	l in cm	b in cm	h in cm
A	4	4	3
B	5	4	2
C	6	5	4
D	10	10	10

2 Write the volumes of the **cubes** with these edge lengths:
(a) 1 cm, **(b)** 2 cm, **(c)** 3 cm, **(d)** 4 cm, **(e)** 5 cm, **(f)** 6 cm.

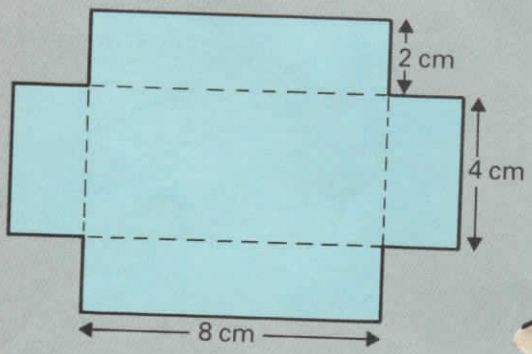
3 A small cardboard box is 6 cm long, 4 cm broad, and 3 cm in depth.
(a) How many centimetre cubes could be packed into the box?
(b) How many millilitres of sand could the box hold?



Work in a small group for questions 4 and 5.

4 (a) Ask your teacher for the toothpaste box. Measure, to the nearest centimetre, its length, breadth, and height. Find the approximate volume of the box.
(b) Express the volume of the box in millilitres.
(c) Find the difference between this volume and the actual volume marked in ml on the toothpaste box.

5 (a) Make an open cardboard box from a net like this. What volume of sand would it contain if filled level to the top?



(b) Make another cardboard box with **different** length, breadth, and height, to hold the **same volume** of sand.
(c) What is the edge length of a **cube** with this same volume?