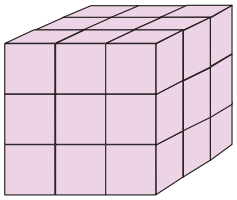
Chapter 13 – Practical - Questions 1 and 2

Practical

1 Make at least three different cubes using Multilink cubes.

Example



Fill in the table for your cubes.

Cube	Length (ℓ) in small cubes	Length × Length × Length	Volume in small cubes

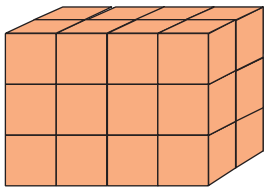
a What do you notice about the columns length × length × length and volume?

b Write a rule in words for finding the volume of a cube.

c Discuss how you could write the rule using symbols.

2 Make at least four different cuboids using Multilink cubes.

Example



Discussion

- What is the difference between a cube and a cuboid?
- Max thinks that a cube is a special sort of cuboid. Is he correct? Explain.

Fill in the table for your cuboids.

Cuboid	Length (ℓ) in small cubes	Width (w) in small cubes	Height (h) in small cubes	Length × width × height	Volume in small cubes

a What do you notice about the columns length × width × height and volume?

b Write a rule in words for finding the volume of a cuboid using the length, width and height of the cuboid.

c Discuss how you could write the rule in symbols.
Justify your answer.