

Name _____

Date _____

Measuring Volume with Unit Cubes - Step-by-Step Lesson

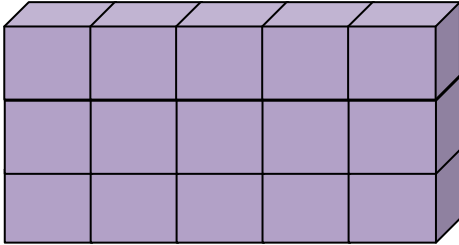
What is the volume of the object?



Length = 2 cm

Width = 2 cm

Height = 1 cm



Explanation:

This can be done a number of ways, since the area of each cube is greater than 1 standard unit. I like to incorporate that fact at the end of the problem.

Step 1) Volume of a rectangular prism = length x width x height

The longest side (length) has 5 cubes. Each has is 2 cm long. So the total length is:

$$5 \times 2 \text{ cm} = 10 \text{ cm}$$

The width is 3 cubes long. Each has is 2 cm long. So the total length is:

$$3 \times 2 \text{ cm} = 6 \text{ cm}$$

The height is 1 cube thick and has is a 1cm measure.

Step 2) Volume of object = 10 cm x 6 cm x 1 cm

$$= 60 \text{ cm}^3$$

