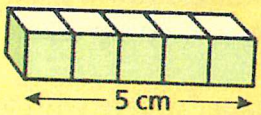
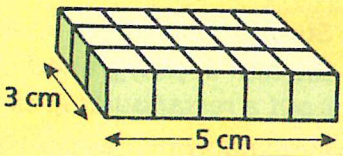
Nature First products

Answer Sheet

Nature First produce bath cubes.
Each bath cube has a volume of 1 cm^3.
This row of bath cubes has a volume of 5 cubic centimetres or 5 cm^3.

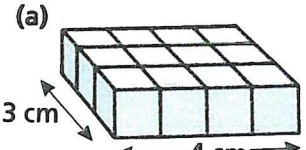


This layer has 3 rows of bath cubes.
The volume of the layer is 5×3
$= 15\ cm^3$



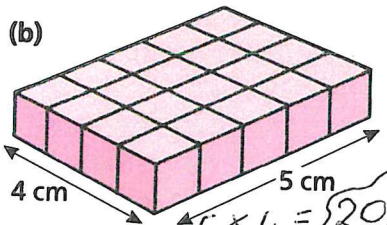
1 Find the volume, in cm^3, of each of these layers of bath cubes.

(a)



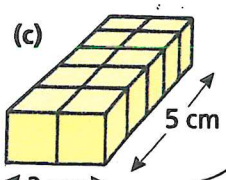
$4 \times 3 = 12\ cm^3$

(b)



$5 \times 4 = 20\ cm^3$

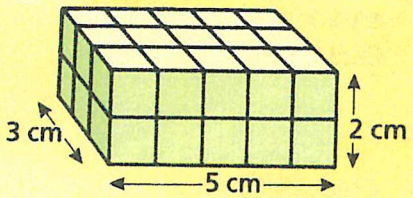
(c)



$5 \times 2 = 10\ cm^3$

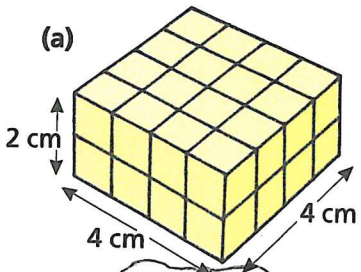
This box of bath cubes has 2 layers.

The volume of 1 layer is $5 \times 3 = 15\ cm^3$
The volume of 2 layers is $15 \times 2 = 30\ cm^3$



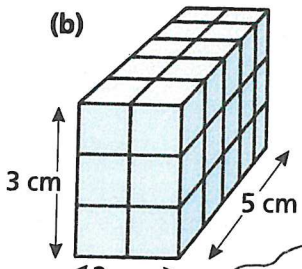
2 Find the volume, in cm^3, of each of these boxes of bath cubes.

(a)



$4 \times 4 \times 2 = 32\ cm^3$

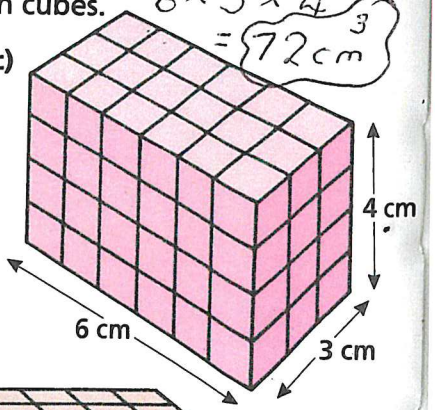
(b)



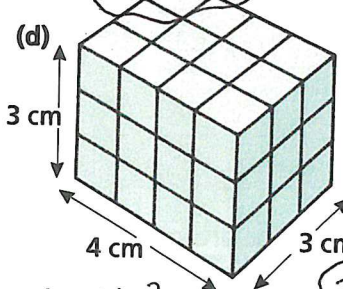
$5 \times 2 \times 3 = 30\ cm^3$

(c)

$6 \times 3 \times 4 = 72\ cm^3$

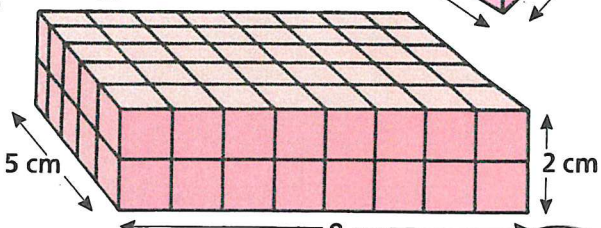


(d)



$4 \times 3 \times 3 = 36\ cm^3$

(e)



$8 \times 5 \times 2 = 80\ cm^3$

3 A cuboid has a volume of 30 cm^3. How many cubes in each row and how many rows in each layer does it have if there are

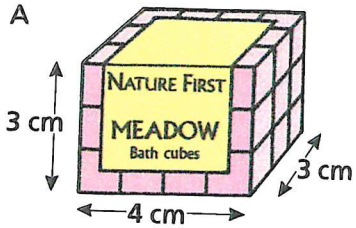
(a) 2 layers (b) 3 layers (c) 5 layers?

15 cubes 10 cubes 6 cubes

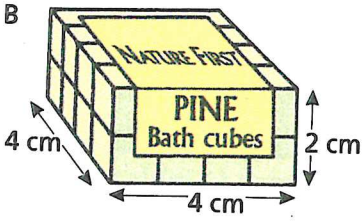
Answer Sheet

1 These cuboids are built from centimetre cubes.

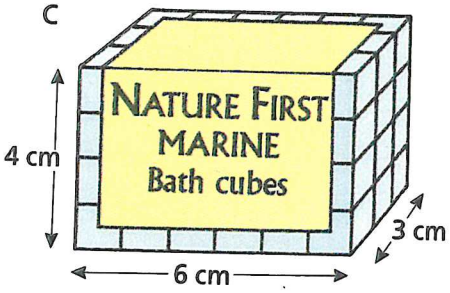
A



B



C



Copy and complete the table.

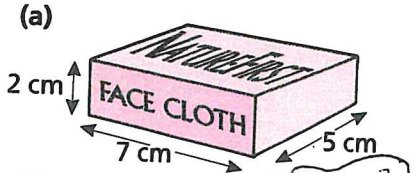
Cuboid	Number of cubes in a row	Number of rows	Number of layers	Volume in cm³
A	4	3	3	36 cm³
B	4	4	2	32 cm³
C	6	3	4	72 cm³

length × breadth × height = Volume

For every cuboid, V = l × b × h

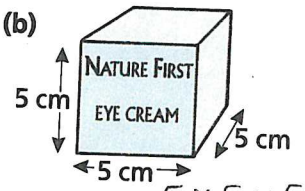
2 Find the volume, in cm³, of each of these cuboids.

(a)



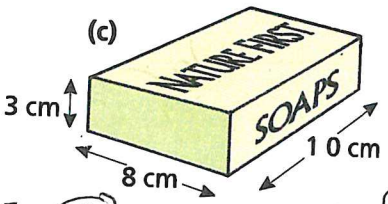
7 × 5 × 2 = 70 cm³

(b)



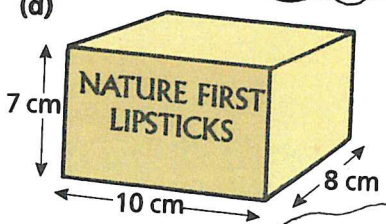
5 × 5 × 5 = 125 cm³

(c)



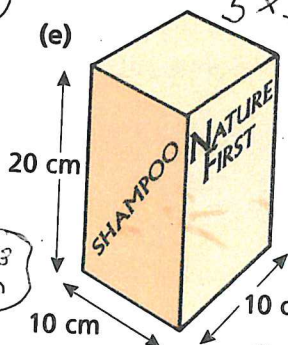
8 × 10 × 3 = 240 cm³

(d)



10 × 8 × 7 = 560 cm³

(e)

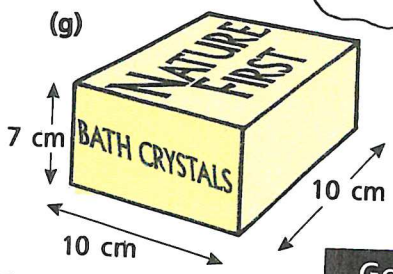


10 × 10 × 20 = 2000 cm³

(f)

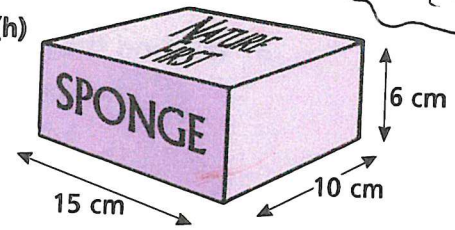
8 × 20 × 5 = 800 cm³

(g)



10 × 10 × 7 = 700 cm³

(h)



10 × 15 × 6 = 900 cm³

Go to Workbook page 28.