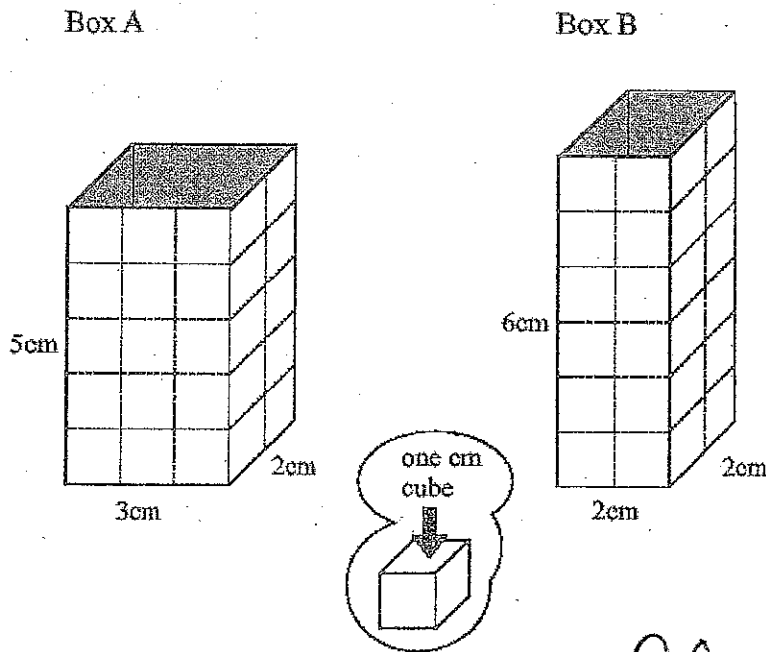


How Many Cubes?

This problem gives you the chance to:
• work with volume

Steve fills Box A and Box B with one centimeter cubes.



1. How many cubes can Steve fit into Box A?

Explain how you figured it out.

I multiplied $l \times w \times h$ or
 $5 \times 3 \times 2 = 30$

30 cm³
cm³

2. How many cubes can Steve fit into Box B?

Show your calculations.

$$6 \times 2 \times 2 = 24 \text{ cm}^3$$

24 cm³
cm³

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Page 2

How Many Cubes? Test 5

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \\ \times 2 \\ \hline 24 \end{array}$$

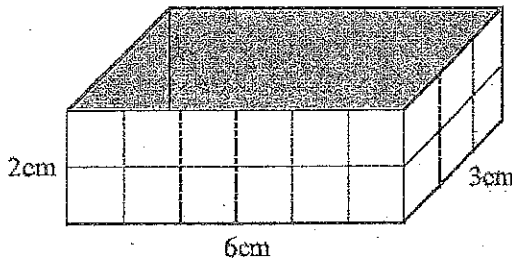
3. Which of the two boxes can hold more cubes?

Box A

4. Here is another box.

How many centimeter cubes
can this box hold?

36 cm³



Find the measurements of a different box that holds the same number of cubes as this box.

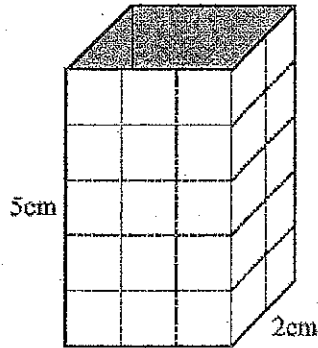
4 cm long 9 cm wide 1 cm high

How Many Cubes?

This problem gives you the chance to:
• work with volume

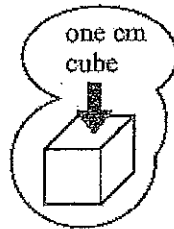
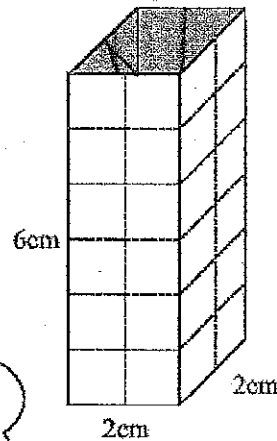
Steve fills Box A and Box B with one centimeter cubes.

Box A



$$5 \times 3 \times 2 = 30 \text{ cm}^3$$

Box B



1. How many cubes can Steve fit into Box A?

30 cubes

Explain how you figured it out.

Steve can fit 30 cubes in box A. I
multiplied Length x width x height

2. How many cubes can Steve fit into Box B?

24 cubes

Show your calculations.

$$6 \times 2 \times 2 = 24$$

24 cubes

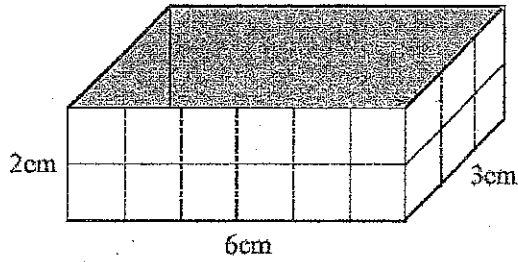
3. Which of the two boxes can hold more cubes?

Box A

4. Here is another box.

How many centimeter cubes
can this box hold?

36 cm³



2x6x3

Find the measurements of a different box that holds the same number of cubes as this box.

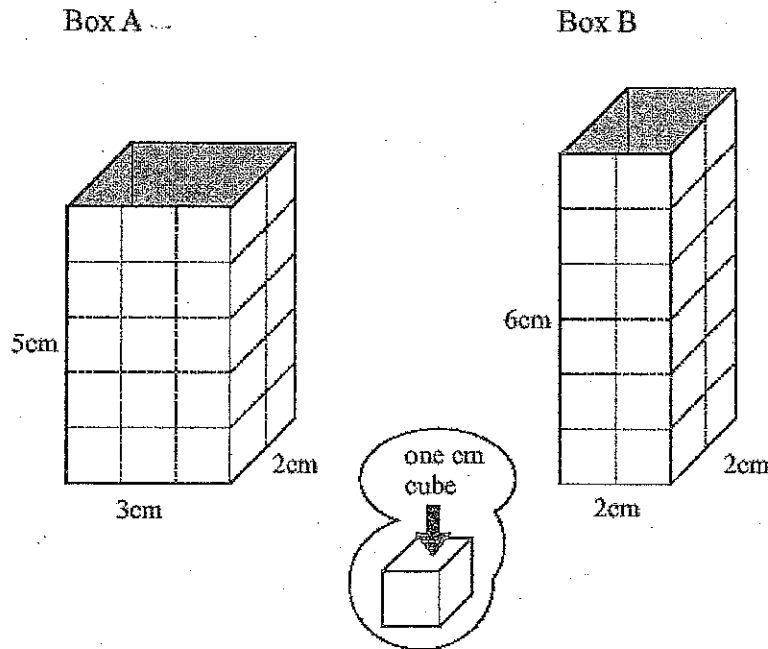
12 cm long 3 cm wide 1 cm high

$$\begin{array}{r} 10 \\ + 2 \\ \hline 36 \end{array}$$

How Many Cubes?

This problem gives you the chance to:
• work with volume

Steve fills Box A and Box B with one centimeter cubes.



1. How many cubes can Steve fit into Box A?

30 cubes

Explain how you figured it out.

I figured this out by multiplying
the height (5 cm) times the length (3 cm)
times the width (2 cm)

2. How many cubes can Steve fit into Box B?

24 cubes

Show your calculations.

$$6 \times 2 = 12 \quad 12 \times 2 = 24 \text{ cm}^2$$

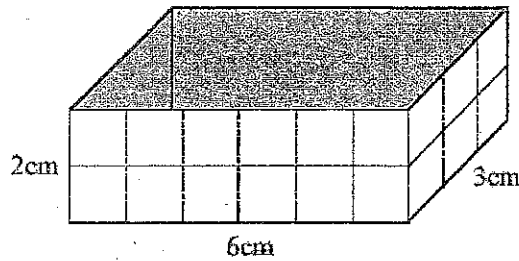
3. Which of the two boxes can hold more cubes?

Box A

4. Here is another box.

How many centimeter cubes can this box hold?

36 cm cubes



Find the measurements of a different box that holds the same number of cubes as this box.

3 cm long 4 cm wide 3 cm high

$36 \div 6 = 6 = 4$

$36 \div 12 = 3$

$36 \div 6 = 6 \div 3 =$

~~36~~

$\underline{3} \times \underline{4} = \underline{12} \times \underline{3} = 36$