

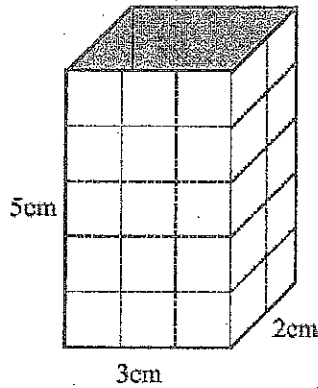
## How Many Cubes?

This problem gives you the chance to:

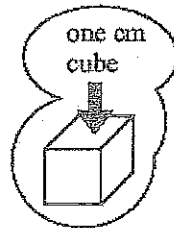
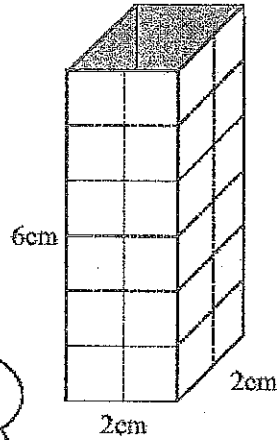
- work with volume

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

Box A



Box B



*Handwritten notes:*  
 $5 \times 3 \times 2 = 30$   
 $6 \times 2 \times 2 = 24$   
 $30 + 24 = 54$   
 50

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

50

Explain how you figured it out.

*Handwritten explanation:*  
 I got my answer by adding up  
 sum with 3cm to equal 8 and then  
 added 2 to 8 to get 10. I then counted

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

50

Show your calculations.

*Handwritten calculations:*  
 $6\text{cm} + 2\text{cm} + 2\text{cm} = 10\text{cm}$   
 5 sides  
 $10 \times 5 = 50$

*Handwritten notes:*  
 the sides  
 which is  
 5, and  
 multiplied  
 them  
 by 10 to  
 get 50.

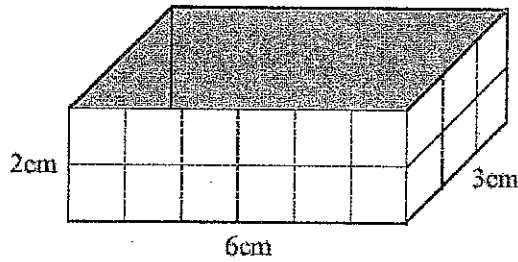
3. Which of the two boxes can hold more cubes?

neither, they  
are  
the same

4. Here is another box.

How many centimeter cubes  
can this box hold?

55



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

2 cm long

7 cm wide

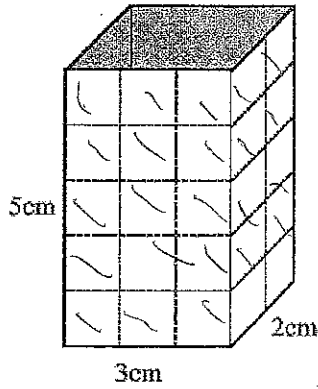
2 cm high

# How Many Cubes?

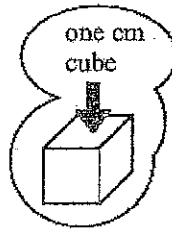
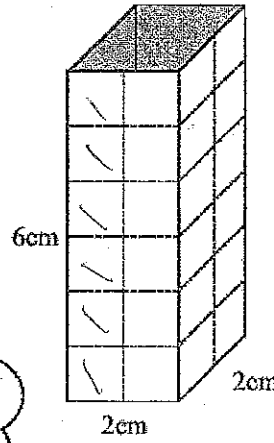
This problem gives you the chance to:  
 • work with volume

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

Box A



Box B



$$5 \times 5 = 25$$

$$\begin{array}{r} 25 \\ + 15 \\ \hline 40 \end{array}$$

80

$$\begin{array}{r} 6 \times 6 = 36 \\ \quad 12 \\ \hline 48 \\ + 12 \\ \hline 60 \end{array}$$

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

80

Explain how you figured it out.

I first multiplyd  $5 \times 5 = 25$  becuase there were ~~5~~ 5 rows and 5 in each row a five in each colom than I did  $3 \times 5 = 15$  and then I added 25 and 15 then  $2 \times 40 = 80$

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

60

Show your calculations.

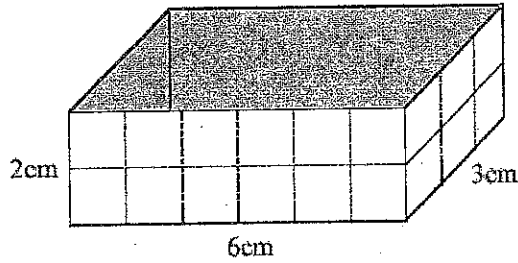
3. Which of the two boxes can hold more cubes?

~~box A~~ box A

4. Here is another box.

How many centimeter cubes can this box hold?

24



Handwritten calculations:  $2 \times 4 \times 3 = 24$

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

21 cm long

~~2~~ cm wide

~~5~~ cm high

Handwritten calculations:  $21 \times 10 = 210$

Handwritten calculations:  $20 \times 10 = 200$

Handwritten calculations:  $2 \times 22 = 44$