Friday
Fun

Count forwards and backwards in steps.

3.2 = 3.20 = 3.200

Write the next 3 numbers

A. 5.2 - 0.1

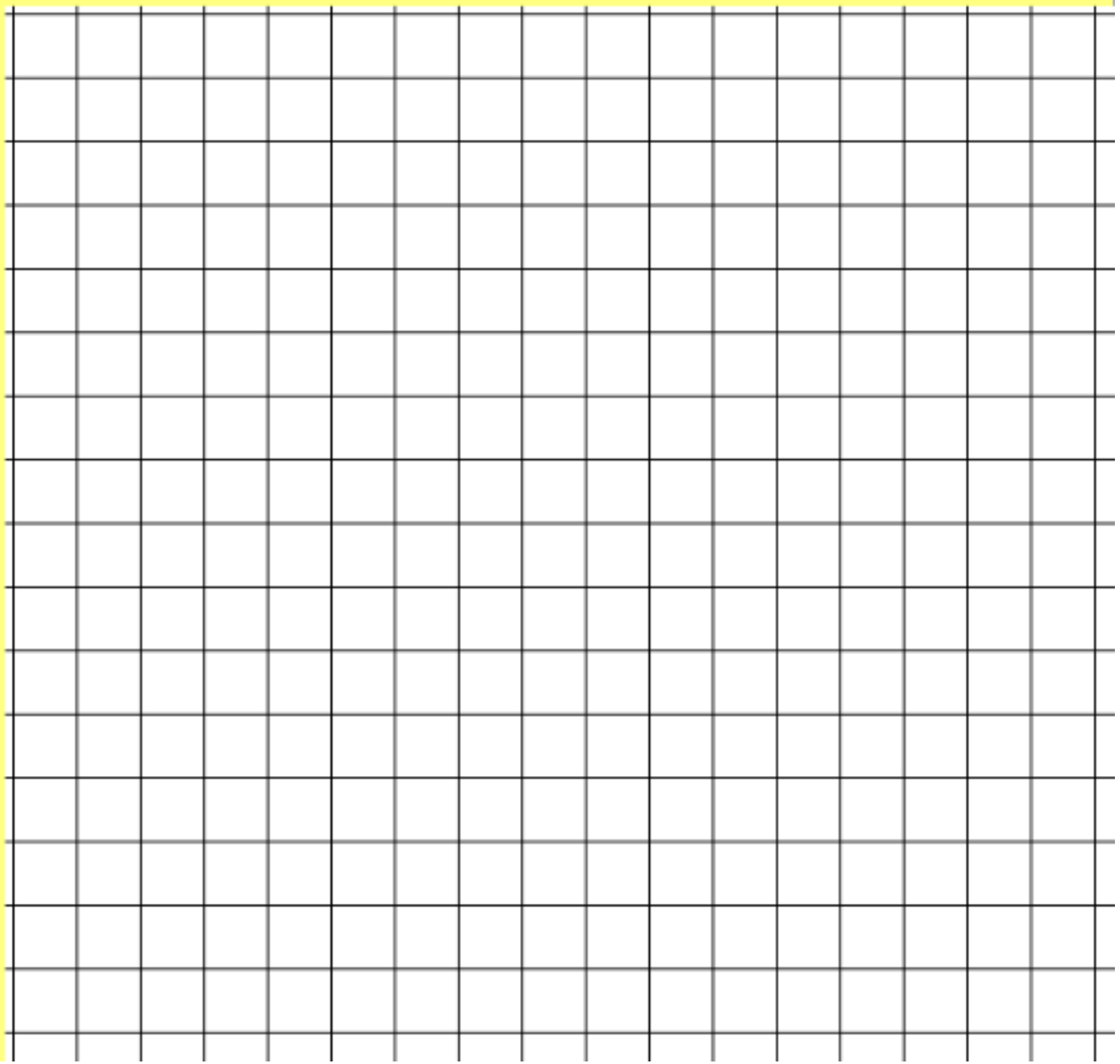
B. 7.89 + 0.1

C. 0.001 + 4.479

D. 3.502 - 0.001

E. 16.02 - 0.01

F. 42.02 - 0.001



A reminder from yesterday…

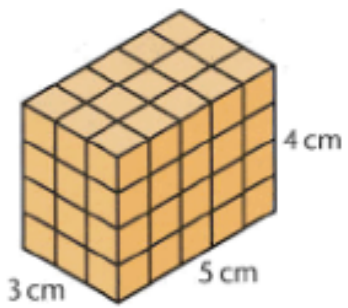
L.O. Compare volumes.

The volume of a cuboid is the length times the breadth times the height.

$$V = lbh$$

Why this formula works is apparent when considering a cuboid built from 1 cm^3 blocks.

Example 1



Blocks in one layer $= 3 \times 5 = 15$

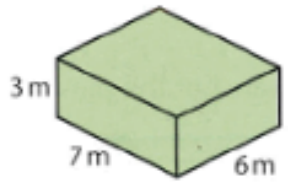
Blocks in four layers $= 4 \times 15 = 60$

Volume $= 60\,cm^3$

Volume is always measured in cubic units such as cubic centimetres (cm^3) or cubic metres (m^3).

Example 2

Find the volume of this room.



Volume $= lbh$

Volume $= (7 \times 6 \times 3)\,m^3$

$= (42 \times 3)\,m^3$

$= 126\,m^3$

L.O. Compare volumes.

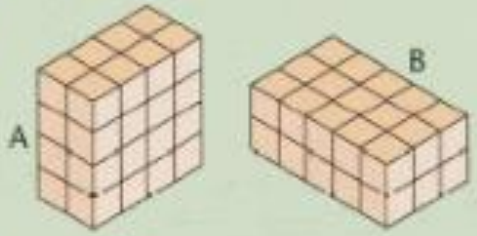
A

For each pair of cuboids find:

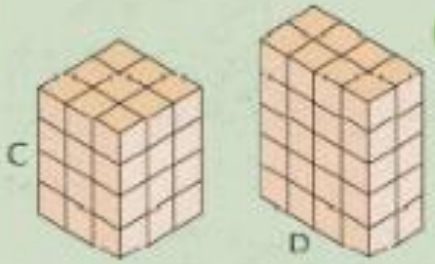
a) which has the greater volume

b) the difference in their volumes.
(All cubes are 1 cm^3.)

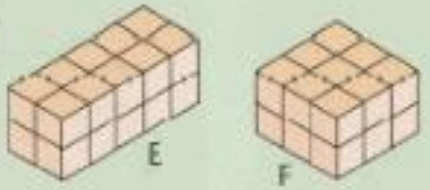
1



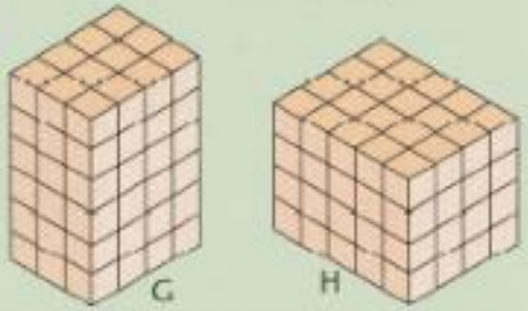
2



3



4



L.O. Compare volumes.

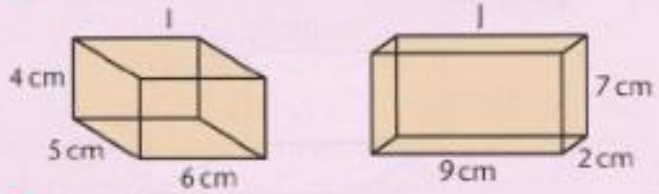
B

For each pair of cuboids find:

a) which has the greater volume

b) the difference in their volumes.

1



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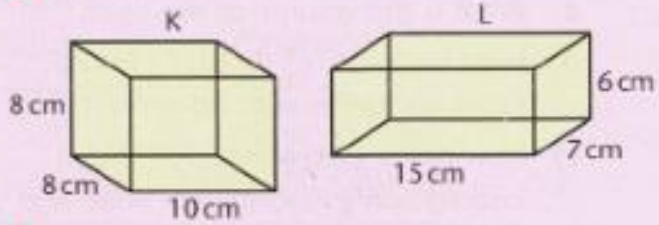
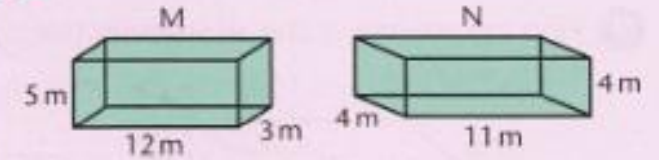


3



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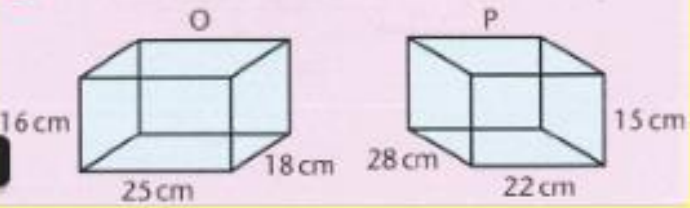
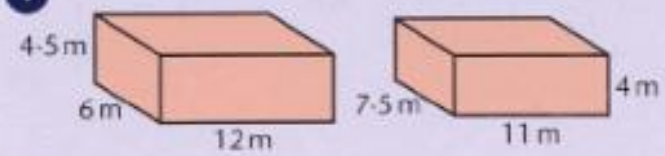


C

Find the difference in volume between each pair of shapes.

1



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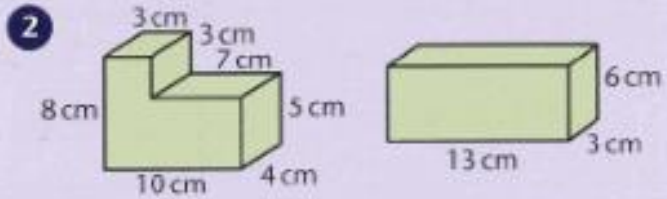

3 A large box of Flakies breakfast cereal has these dimensions.

A small box of Flakies is also 7 cm wide but is three quarters the height and two thirds the length of the large box. Find the volume of each box. What do you notice about the difference between their volumes?

4 How many cubic millimetres fit into one cubic centimetre?

5 How many cubic metres fit into one cubic kilometre?

ANSWERS

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A

1 a) A
b) 2 cm^3
2 a) D
b) 4 cm^3
3 a) E
b) 2 cm^3
4 a) H
b) 8 cm^3

B

1 a) J
b) 6 cm^3
2 a) K
b) 10 cm^3
3 a) M
b) 4 m^3
4 a) P
b) 2040 cm^3

C

1 6 m^3
2 2 cm^3
3 2058 cm^3 4116 cm^3
The large box is twice the volume of the small box.
4 1000
5 1 000 000 000