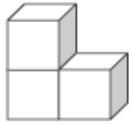


Wednesday 17.06.20 ANSWERS

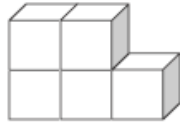
WALT: find the volume of shapes using cubes

VOLUME – COUNTING CUBES

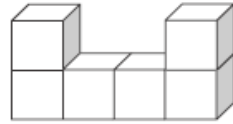
1 If each cube has a volume of 1cm^3 , find the volume of each solid.



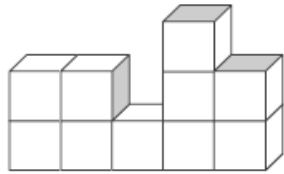
3 cm^3



5 cm^3



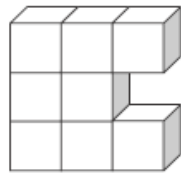
6 cm^3



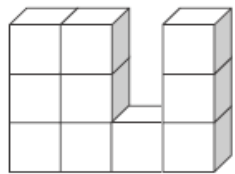
10 cm^3



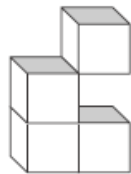
3 cm^3



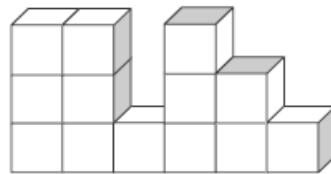
8 cm^3



10 cm^3



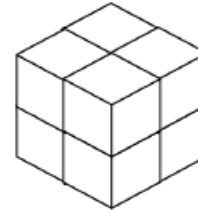
4 cm^3



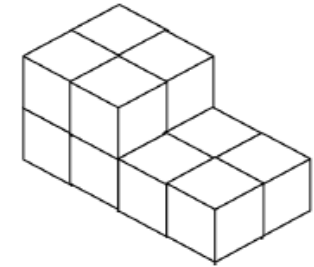
13 cm^3

VOLUME – COUNTING CUBES

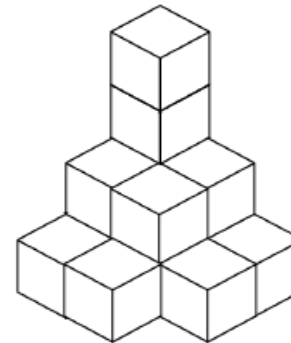
1 If each cube has a volume of 1cm^3 , find the volume of each solid.



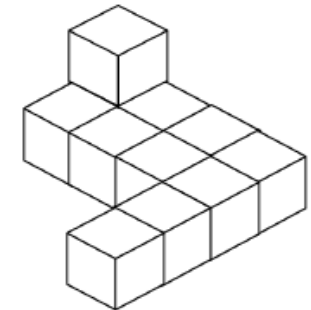
8 cm^3



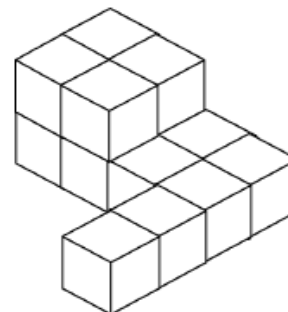
12 cm^3



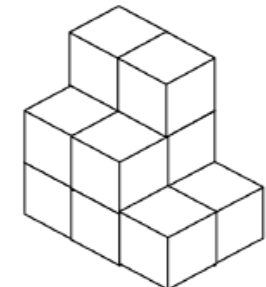
14 cm^3



11 cm^3



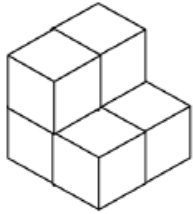
14 cm^3



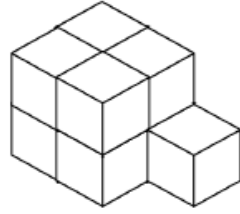
12 cm^3

VOLUME – COUNTING CUBES

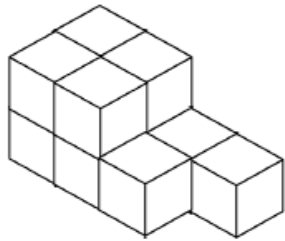
- 1 If each cube has a volume of 1cm^3 , how many cubes are needed to complete each solid to form a cuboid?



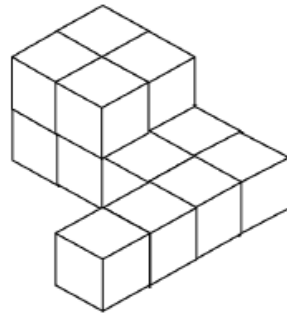
2 cm^3



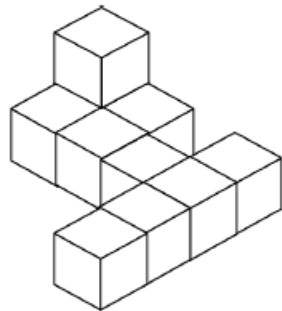
3 cm^3



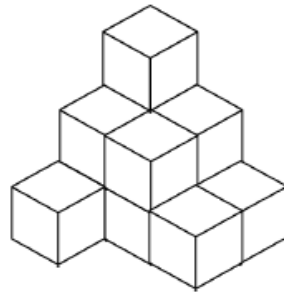
5 cm^3



12 cm^3



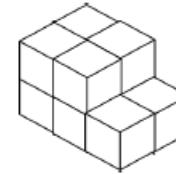
22 cm^3



15 cm^3

VOLUME – COUNTING CUBES

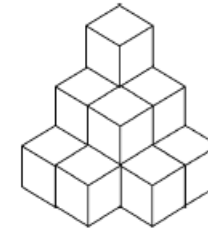
- 1 Craig says he needs 10cm^3 to build this shape. Is Craig correct? Prove it.



Craig is correct. He will need 10cm^3 to build the shape.

If you count the number of cubes in total there are 10. There are 8cm^3 making the shape, plus an additional 2cm^3

- 2 Fiona and Nazeem build the shape below.



Fiona says she will need 12cm^3
Nazeem says he will need 13cm^3
Who do you agree with?
Explain why.

Nazeem is correct. He will need 13cm^3 to build the shape.

If you count the number of cubes needed to make the shape, there are 13, not 12 as Fiona suggested. There are 4 cubes which need to be counted on the base, which cannot be seen from this view.