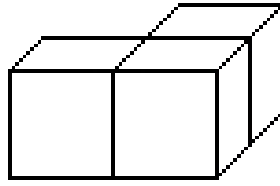


Enlarging blocks

This task is about scale and volume.

Make this shape from 3 cubes.



a) Enlarge the shape by a scale factor of 2 by adding more blocks.

Show your model to your teacher.

b) How many blocks did you use?

c) i) How many times bigger is the volume of your model than the volume of the original shape shown above?

ii) Explain why the volume has increased this many times (remember you have enlarged it by a scale factor of 2).

d) i) How many blocks would you need if you increased the original shape of 3 blocks by a scale factor of 10?

ii) How did you work this out?