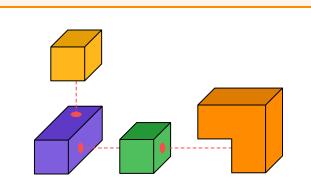
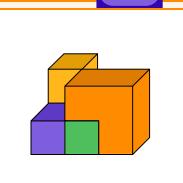


In Combining 3D Shapes questions, you have to select the group of blocks that can be combined to make a particular 3D shape.

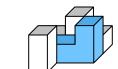






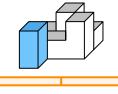
There are **three types of block**: fully visible, partially hidden and obscured.

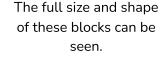
Fully visible



Partially hidden

Obscured

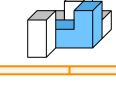




visible blocks?

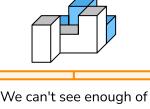
2

3



these blocks, but we can work out what they are.

We can't see parts of



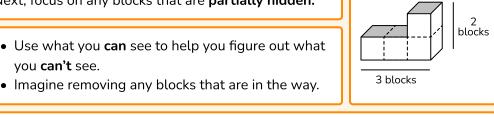
the block(s) to work out what they are without looking at the answer options.

2 blocks

Method Start by looking at blocks that are clearly visible.

How many cubes wide, long and tall are the fully

- Rule out any answer options that don't contain these blocks.
- Next, focus on any blocks that are partially hidden.



1 block

- you can't see. • Imagine removing any blocks that are in the way.
- obscured blocks. • An obscured section can be

Use any remaining answer options to figure out the size and shape of any

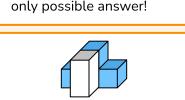
arrangements and different **numbers** of blocks! Go through the remaining options and rule them out until you are left with the

made up of different













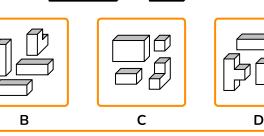






Which set of blocks could be used to make this 3D shape?

Example Question



• C - it does not contain this block!

• D because there is no 'L' shaped block!

Look at the partially hidden block.

Focus on the dimensions of the fully visible block.

The cuboid is 3 cubes wide, 1 cube long and 1 cube tall.



Ε

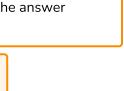
The **L** shaped block on the left is 2 cubes wide, 1 cube long and 2 cubes tall.

We can rule out...

We can rule out...

Figure out the shape and size of any obscured blocks using the answer options.

On the right, there is another long cuboid, which is 3 cubes



long and at least 1 cube wide. We can rule out...

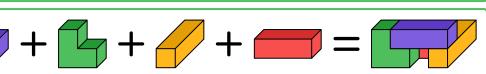
A because it only contains one long cuboid shape,

instead of two!

We can rule out...

B is the correct answer! It is the only option that can make the 3D shape!

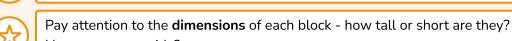
size is 3 cubes wide, 2 cubes long and 1 cube tall.



Top Tips

The **obscured block** does not poke out, so we can deduce that its maximum

• E because the large cuboid is too big to fit into our 3D shape!













Look at how the blocks are positioned - are there any gaps between them?

