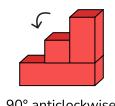


In Rotating 3D shapes questions, you will be asked to choose the image that is a rotation of a particular 3D shape.

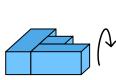




90° anticlockwise

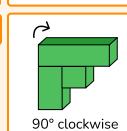


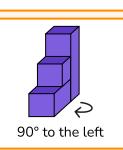
90° to the right

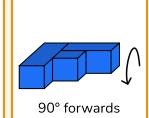


90° backwards









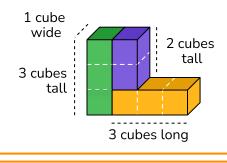
Method

Look closely at the **identifying features** of the main 3D shape.

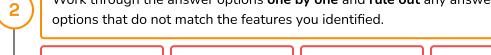
Think about NAPS!

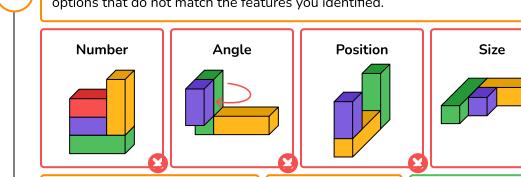
- Number: How many blocks are there in total?
- Angles: Are any blocks perpendicular to each other? Are any blocks parallel to each other?
- Position: Which blocks are next to each other?
- Size: How long, tall or wide is each block?





- Number: There are three blocks. • Angles & Position: The upright
- blocks are parallel to each other, and the green and yellow blocks are perpendicular to each other. • Size: See diagram.

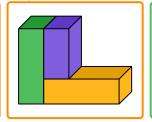


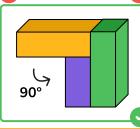


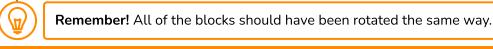
Work through the answer options one by one and rule out any answer

option that shows an exact 3 rotation of the original 3D shape!

You should be left with one







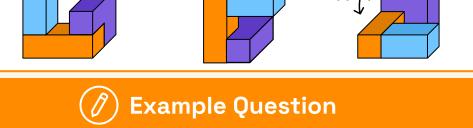
3D shapes can be rotated more than once! They can be rotated in one

direction and then in another direction to get the answer.

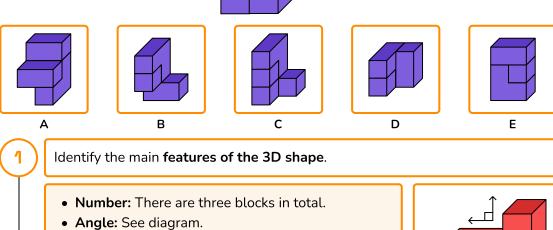
Top Tips



لا∽900



Which of the options below is a rotation of this 3D shape?



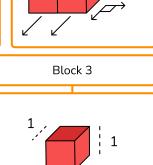
• Position: The cube is tucked inside the L-shape.

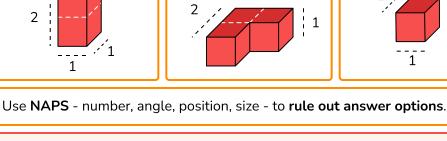
- Size: There is a 2x1 cuboid (block 1), a 2x2 Lshape (block 2) and a 1x1 cube (block 3).

2

Block 1 Block 2 2

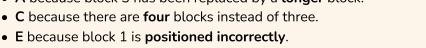
The cuboid extends from one face of the L-shape.





We can rule out... A because block 3 has been replaced by a longer block.

you look closely you can see that block 1 has not been rotated!



- **D** is a **red herring!** It looks like it could be the correct answer, but if
- **B** is the correct answer! It is a 90° clockwise rotation of the 3D shape.

