

# Non-Verbal Reasoning

## Rotation

### What do I do?



Find the figure that would look like the figure on the left, if it were rotated.

### Top Tips!



- There's always a few head tilts on these types of questions! Rule out the ones that are obvious first - a colour change or a missing element.
- Shapes that look very similar have usually been flipped over, reflected or inverted - so watch out for those! You're only after a rotation.
- Focus on how one part of the shape would be rotated and you might solve the problem by a process of elimination.

### What skills do I need to improve?



Doing lots of practice questions will help with becoming familiar with question types but what else can you do to improve in this area?

- Try to create some shapes/pictures of your own and rotate them.
- Another good revision tactic is to revise rotation and reflection at the same time. Look and see how the shapes change when they are rotated, compared to when they are reflected.
- Looking into how shapes tessellate (fit together with no gaps) will also help you with these kinds of NVR questions.

### Practice Questions

1.



rotate



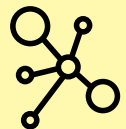
A



B



C



D

2.



rotate



A



B



C



D

3.



rotate



A



B



C



D

Can you write the definitions for the following words: rotate, translate and reflect.



# Non-Verbal Reasoning

## Rotation

### Answers

1. C
2. A
3. B



Rotate: To move in a circle around an axis or centre  
Translate: To move from one place to another  
Reflect: An image or shape as it would be seen in a mirror

