NON-VERBAL REASONING 11+

Spot the Pattern: Rotation

Name: Date:

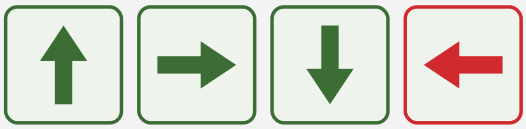
Watch the video first: search **Elizabeth Rose Tutoring** on YouTube – "Spot the Pattern: Rotation".

Remember

1. Look at what changes. Is it the direction, the size or the colour?
2. Measure the turn: ¼ turn = 90°, ½ turn = 180°, ⅛ turn = 45°.
3. Clockwise means the same way as the hands on a clock.
4. Carry the pattern on, then check every step follows the rule.

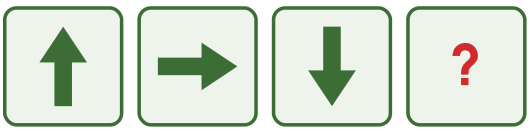
Worked example

The arrow turns a ¼ turn clockwise each time, so the next arrow points left.



Your turn

1 Which arrow comes next?

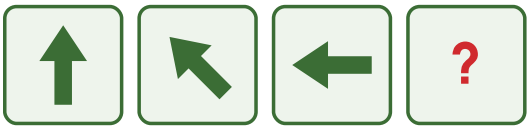


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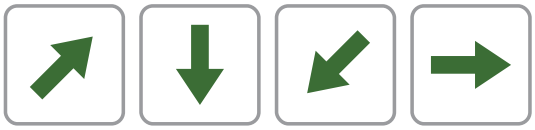


Answer: .....

2 Which arrow comes next?

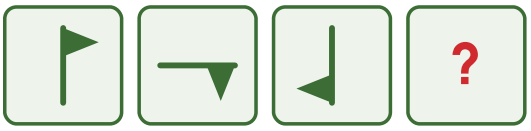


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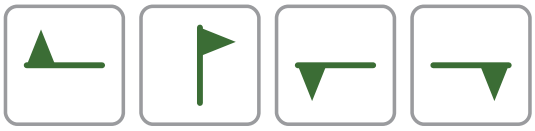


Answer: .....

3 Which flag comes next?

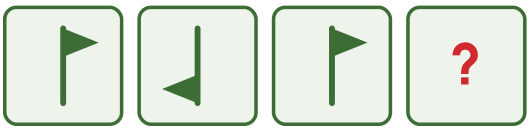


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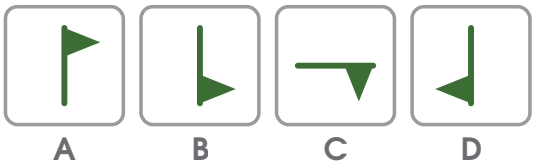


Answer: .....

4 Which flag comes next?

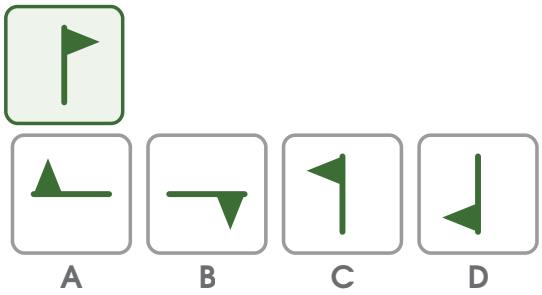


Choose:



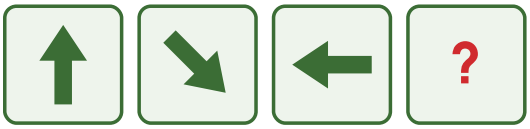
Answer: .....

5 Which option shows this flag after a ¼ turn clockwise?

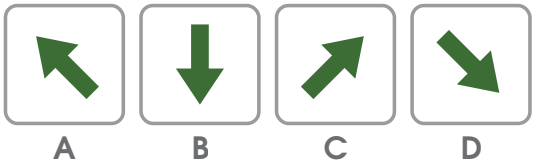


Answer: .....

6 Which arrow comes next?



Choose:



Answer: .....

Challenge

C1 A shape makes a ½ turn clockwise. How many degrees has it turned?

.....

C2 An arrow points right. It turns three ¼ turns clockwise. Which way does it point now?

.....

Well done! Check your answers with a grown-up.

Answers: Spot the Pattern: Rotation

For parents and tutors. You may want to print this page separately.

1	B – a ¼ turn clockwise each time (up, right, down, left)
2	C – a ⅛ turn anticlockwise each time
3	A – a ¼ turn clockwise each time (C is a reflection, not a rotation)
4	D – a ½ turn each time
5	B
6	C – the arrow turns 135° clockwise each time
C1	180°
C2	Up (right → down → left → up)

Watch out for reflections (mirror images). A rotated shape can be turned back to match the original; a reflected shape cannot.