

Transformations

Syllabus tracker [Open it online](#)

Name: _____

Date: _____

Tick one circle for each statement — on screen (click) or with a pen. Then try the quick checks: write your answer in the box, check it against the answers at the end, and tick “right” when you got it.

Reflections

Reflecting in the axes and in lines such as $x = a$, $y = b$ and $y = x$.

	Don't know	Shaky	Got it
I can reflect a point in the x-axis or y-axis.	☐	☐	☐
I can reflect in a line such as $y = x$.	☐	☐	☐

Rotations

Rotating through multiples of 90° and describing a rotation.

	Don't know	Shaky	Got it
I can rotate a point about the origin through 90° or 180° .	☐	☐	☐
I can describe a rotation fully.	☐	☐	☐

Translations

Moving a shape by a column vector.

	Don't know	Shaky	Got it
I can translate a point by a column vector.	☐	☐	☐

Enlargements

Positive, fractional and negative scale factors from a centre.

	Don't know	Shaky	Got it
I can enlarge a shape from a centre by a scale factor.	☐	☐	☐
I can find the scale factor of an enlargement.	☐	☐	☐
I can use a negative scale factor.	☐	☐	☐

Describing and combining

Naming a transformation fully and combining two.

	Don't know	Shaky	Got it
I can name a transformation with the correct words.	☐	☐	☐
I can describe a combination of transformations as a single one.	☐	☐	☐

Quick checks

One quick question per statement. Answer in the box, then check the answers at the end.

1. Reflect the point (3, 5) in the x-axis.

Answer: _____

☐ I got it right

2. Reflect the point (2, 7) in the line $y = x$.

Answer: _____

☐ I got it right

3. Rotate (4, 1) through 90° anticlockwise about the origin.

Answer: _____

☐ I got it right

4. A full description of a rotation needs...

A the centre, the angle and the direction **B** the centre and a vector **C** the line of reflection **D** the scale factor and the centre

Answer: _____

☐ I got it right

5. Translate $(-2, 3)$ by the vector $(5, -4)$.

Answer: _____

☐ I got it right

6. Enlarge the point (3, 2) by scale factor 2 with centre (1, 1).

Answer: _____

☐ I got it right

7. A side of 4 cm becomes 10 cm after an enlargement. What is the scale factor?

Answer: _____

☐ I got it right

8. Enlarge (2, 3) by scale factor -1 with centre (0, 0).

Answer: _____

☐ I got it right

9. A shape is flipped over the line $y = 2$. This is a...

A reflection in the line $y = 2$ **B** rotation about $y = 2$ **C** translation by 2 **D** enlargement with centre 2

Answer: _____

☐ I got it right

10. A reflection in the x-axis followed by a reflection in the y-axis is the same as...

A a rotation of 180° about (0, 0) **B** a reflection in $y = x$ **C** a translation **D** a rotation of 90° about (0, 0)

Answer: _____

☐ I got it right

Answers

Try every question first, then check.

1. 3, -5
2. (7, 2)
3. -1, 4
4. A: the centre, the angle and the direction
5. 3, -1
6. (5, 3)
7. 2.5
8. -2, -3
9. A: reflection in the line $y = 2$
10. A: a rotation of 180° about (0, 0)