

Maths Workout - Geometry & Measures

Topic 20 - Transformations 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Perform and describe a reflection on a coordinate grid</i>	<i>Perform and describe a translation on a coordinate grid using vector notation</i>	<i>Perform and describe a rotation about a point on a coordinate grid</i>	<i>Perform and describe an enlargement on a coordinate grid with a centre of enlargement: whole positive scale factor</i>	<i>Perform and describe an enlargement on a coordinate grid with a centre of enlargement: fractional scale factor (Tasks 1-6) and negative integer scale factor (Tasks 7-12)</i>
1. Draw the image of an object reflected in the y-axis	1. Locate the image of a translated object	1. Locate the image of a rotated object rotated: shape attached to the point of rotation: top centre start	1. Demo: Understand how the centre of enlargement, object and image are connected: triangle	1. Demo: Understand how the centre of enlargement, object and image are connected: triangle
2. Draw the image of an object reflected in the x-axis	2. Locate the image of a translated object	2. Locate the image of a rotated object: shape attached to the point of rotation	2. Demo: Understand how the centre of enlargement, object and image are connected: square	2. Demo: Understand how the centre of enlargement, object and image are connected: square
3. Draw the image of an object reflected in the line $y = x$ and $y = -x$	3. Locate the image of a translated object	3. Locate the image of a rotated object: shape attached to the point of rotation	3. Identify the centre and scale factor of enlargement: triangles: 1 st quadrant	3. Identify the centre and scale factor of enlargement: triangles
4. Draw the image of an object reflected in a given vertical line: equation given and line shown	4. Draw the image of a translated object	4. Locate the image for an object rotated around a point: top centre start	4. Identify the centre and scale factor of enlargement: quadrilaterals: 1 st quadrant	4. Identify the centre and scale factor of enlargement: quadrilaterals
5. Draw the image of an object reflected in a given horizontal line: equation given and line shown	5. Draw the image of a translated object	5. Locate the image for an object rotated around a point	5. Identify the centre and scale factor of enlargement: triangles	5. Draw the image of an enlarged triangle
6. Draw the image of an object reflected in a line with gradient 1 or -1: equation given and line shown	6. Draw the image of a translated object	6. Locate the image for an object rotated around a point	6. Identify the centre and scale factor of enlargement: quadrilaterals	6. Draw the image of an enlarged quadrilateral
7. Identify the equation of the line of reflection given object and image: vertical line	7. Describe a translation given the object and image	7. Describe a rotation: shape attached to the point of rotation: top centre start	7. Identify the centre and scale factor of enlargement: pentagons	7. Demo: Understand how the centre of enlargement, object and image are connected: triangle
8. Identify the equation of the line of reflection given object and image: horizontal line	8. Describe a translation given the object and image	8. Describe a rotation: shape attached to the point of rotation	8. Draw the image of an enlarged triangle	8. Demo: Understand how the centre of enlargement, object and image are connected: square
9. Identify the equation of the line of reflection given object and image: gradient 1 or -1	9. Describe a translation given the object and image	9. Describe a rotation: shape attached to the point of rotation	9. Draw the image of an enlarged quadrilateral	9. Identify the centre and scale factor of enlargement: triangles
10. Identify the equation of the line of reflection given object and image: any of the above		10. Describe a rotation: top centre start	10. Draw the image of an enlarged pentagon	10. Identify the centre and scale factor of enlargement: quadrilaterals
11. Draw the image of an object reflected in vertical line: only equation given		11. Describe a rotation	11. Draw the image of an enlarged hexagon	11. Draw the image of an enlarged triangle
12. Draw the image of an object reflected in a horizontal line: only equation given		12. Describe a rotation	12. Draw the image of an enlarged octagon	12. Draw the image of an enlarged quadrilateral
13. Draw the image of an object reflected in a line with gradient 1 or -1: only equation given				
14. Draw the image of an object reflected in a line: only equation given				