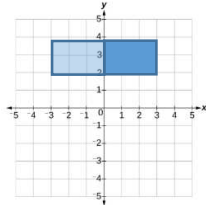
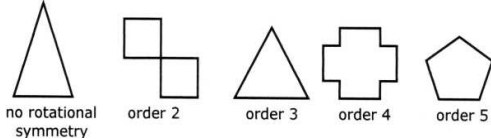
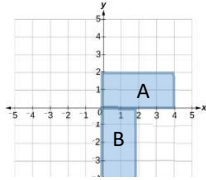
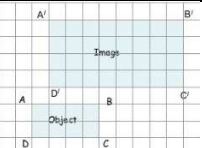
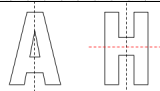
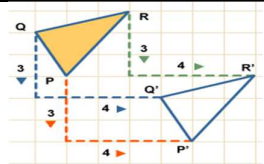


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	Topic	Information	Examples	Hegarty Clip
1	Key words	<ul style="list-style-type: none"> The origin is the point (0, 0) Transformation – to change a shape by reflecting, rotating enlarging or translating Invariant point or line – a point or line that does not change under a transformation 	<p>When the rectangle is reflected in the y axis, the point (0, 4) does not move – it is invariant.</p> 	
2	Rotation symmetry	<ul style="list-style-type: none"> The order of rotation symmetry is the number of times a shape can be rotated to fit exactly on itself. A shape with rotation symmetry of order 1 can be said to have no rotation symmetry A full description of rotation symmetry needs a centre of rotation, an angle and a direction of clockwise or anticlockwise 	 <p style="text-align: center;">no rotational symmetry order 2 order 3 order 4 order 5</p>  <p style="text-align: center;">Shape A has been rotated about the origin, 90° clockwise onto shape B</p>	648-649
3	Enlargement	<ul style="list-style-type: none"> An enlargement makes a shape bigger or smaller. Scale factor – each length is multiplied by the scale factor to make the shape bigger or smaller 	 <p style="text-align: center;">Shape ABCD has been enlarged with a scale factor of 2</p>	642 -647
4	Reflection	<ul style="list-style-type: none"> A reflection has a line of symmetry. One side of the shape is a mirror image of the other. 		639 - 641
5	Translation	Translate means to move a shape. The shape does not change size or orientation.		637
6	Column Vector	In a column vector, the top number moves left (-) or right (+) and the bottom number moves up (+) or down (-)	$\begin{pmatrix} 2 \\ 3 \end{pmatrix}$ means '2 right, 3 up' $\begin{pmatrix} -1 \\ -5 \end{pmatrix}$ means '1 left, 5 down'	638