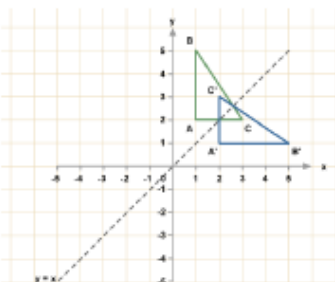
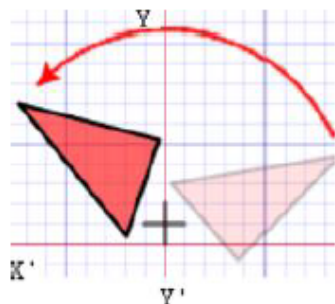


Maths Knowledge Organiser

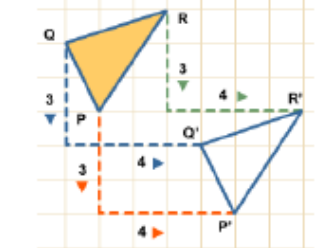
Reflections

<p>Reflection</p>	<p>The size does not change, but the shape is 'flipped' like in a mirror.</p> <p>Line $x = ?$ is a vertical line. Line $y = ?$ is a horizontal line. Line $y = x$ is a diagonal line.</p>	<p>Reflect shape C in the line $y = x$</p> 
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Rotations

<p>Rotation</p>	<p>The size does not change, but the shape is turned around a point.</p> <p>Use tracing paper.</p>	<p>Rotate Shape A 90° anti-clockwise about (0,1)</p> 
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Translations

<p>Translation</p>	<p>Translate means to move a shape. The shape does not change size or orientation.</p>	
<p>Column Vector</p>	<p>In a column vector, the top number moves left (-) or right (+) and the bottom number moves up (+) or down (-)</p>	<p>$\begin{pmatrix} 2 \\ 3 \end{pmatrix}$ means '2 right, 3 up'</p> <p>$\begin{pmatrix} -1 \\ -5 \end{pmatrix}$ means '1 left, 5 down'</p>

Describing Transformations

<p>Describing Transformations</p>	<p>Give the following information when describing each transformation:</p> <p>Look at the number of marks in the question for a hint of how many pieces of information are needed.</p> <p>If you are asked to describe a 'transformation', you need to say the name of the type of transformation as well as the other details.</p>	<ul style="list-style-type: none"> - Translation, Vector - Rotation, Direction, Angle, Centre - Reflection, Equation of mirror line - Enlargement, Scale factor, Centre of enlargement
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