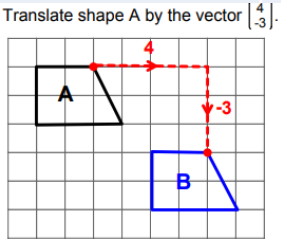
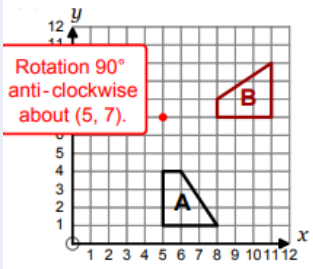
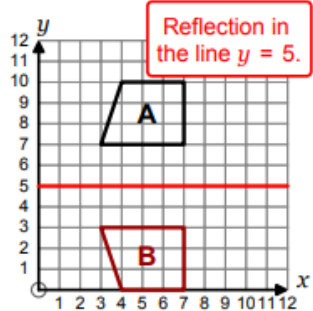
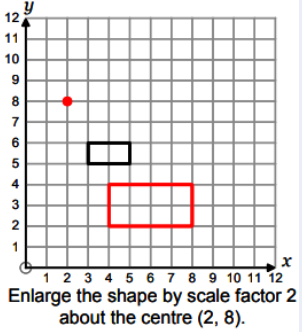
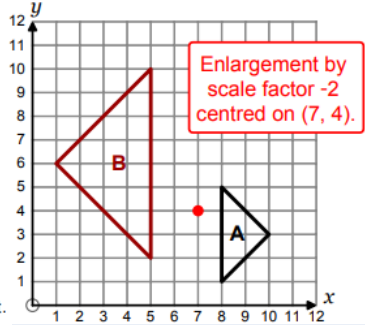
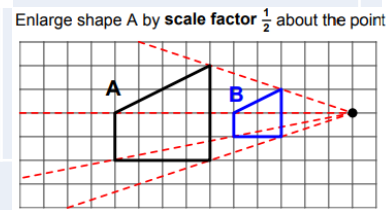
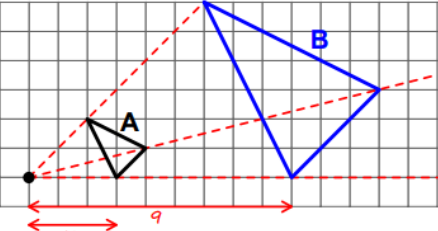
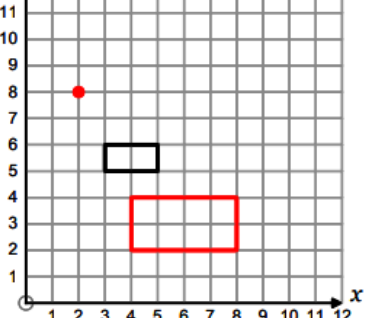
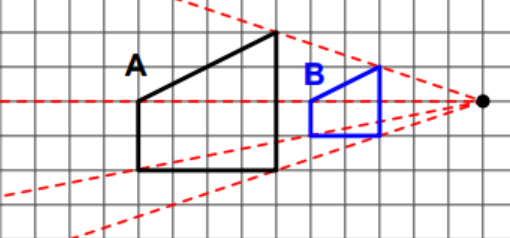
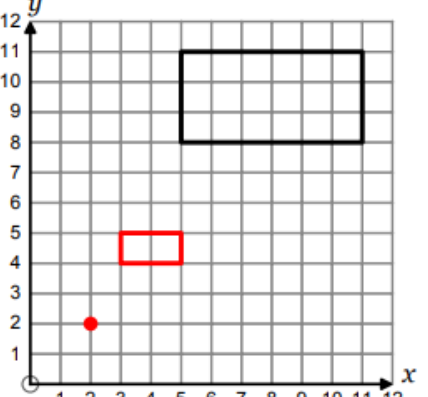
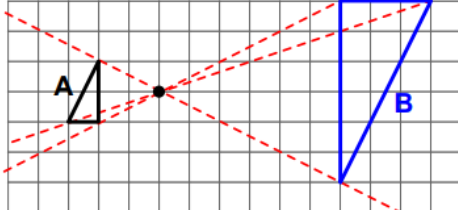
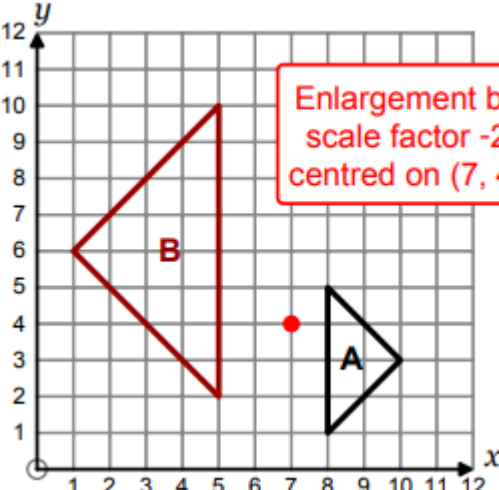


TRANSFORMATIONS

Keywords:	Translation / Vector / Rotation / Reflection / Symmetry / Enlargement					
Definition / Description:	Translation: When a shape is moved into a different position without being turned or flipped	Vector: The description of a movement for a translation	Rotation: The circular motion of an object around a centre	Reflection: When a shape is reflected in a mirror line it is flipped	Symmetry : A mirror image	Enlargement: When a shape changes size
Knowledge points:	Translation: <ul style="list-style-type: none"> • Column Vector 	Rotation: <ul style="list-style-type: none"> • Centre of Rotation (x,y) • Direction (clockwise/anti-clockwise) • Angle of Rotation 	Reflection: <ul style="list-style-type: none"> • Mirror Line (equation of straight line) 	Enlargement: <ul style="list-style-type: none"> • Centre of Enlargement (x,y) • Scale Factor • A fractional scale factor generates a SMALLER image. 	Enlargement – negative scale factor When the scale factor is negative the enlarged shape appears on the other side of the centre of enlargement	
Knowledge point	Translate shape A by the vector $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$. 	 <p>Rotation 90° anti-clockwise about (5, 7).</p>	 <p>Reflection in the line $y = 5$.</p>	 <p>Enlarge the shape by scale factor 2 about the centre (2, 8).</p>	 <p>Enlargement by scale factor -2 centred on (7, 4).</p>	
Linked Knowledge Maps	2D shapes, Congruence and Similarity, Linear Graphs, Vectors, Scale					



TRANSFORMATIONS

Keywords:	Translation / Vector / Rotation / Reflection / Symmetry / Enlargement					
Definition / Description:	Translation: When a shape is moved into a different position without being turned or flipped	Vector: The description of a movement for a translation	Rotation: The circular motion of an object are a centre	Reflection: When a shape is reflected in a mirror line it is flipped	Symmetry: A mirror image	Enlargement: When a shape changes size
Knowledge points:	Enlargement		Enlargement by a fractional scale factor		Enlargement by a Negative scale factor	
Knowledge point examples: see WR / AQA exemplar questions	<p>The distance from the centre to each point is multiplied by the scale factor to give the point on the enlarged shape.</p> <p>Enlarge shape A by scale factor 3 about the point.</p>   <p>Enlarge the shape by scale factor 2 about the centre (2, 8).</p>		<p>When the scale factor is between 0 and 1 the enlarged shape gets smaller</p> <p>Enlarge shape A by scale factor $\frac{1}{2}$ about the point.</p>   <p>Enlarge the shape by scale factor $\frac{1}{3}$ about the centre (2, 2).</p>		<p>When the scale factor is negative the enlarged shape appears on the other side of the centre of enlargement</p> <p>Enlarge shape A by scale factor -3 about the point.</p>   <p>Enlarge the shape by scale factor -2 centred on (7, 4).</p>	
Linked Knowledge Maps	2D shapes / Congruence and Similarity / Linear Graphs					