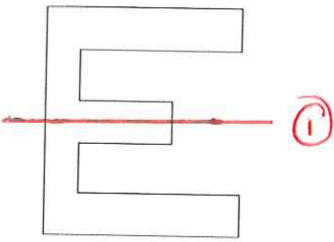
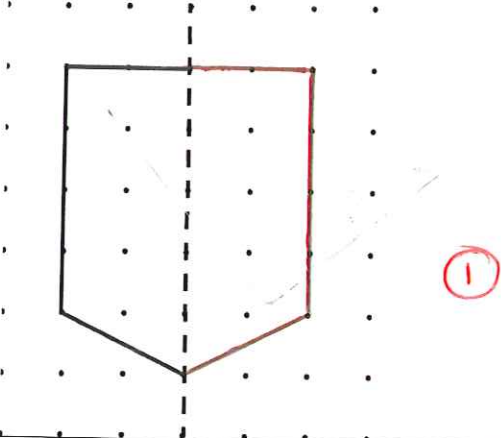
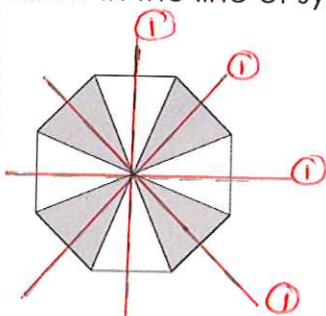
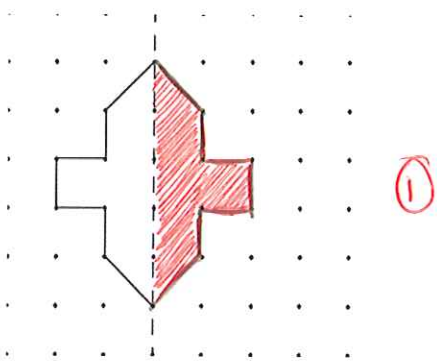
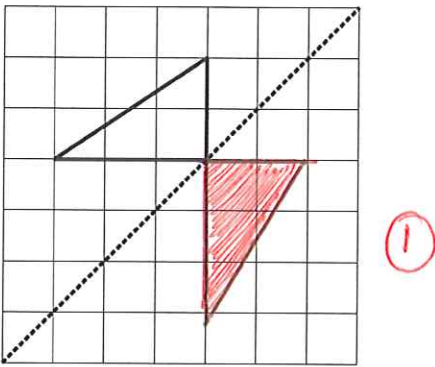
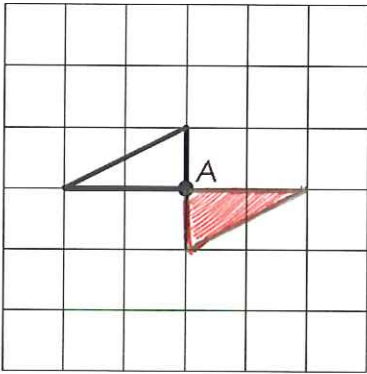
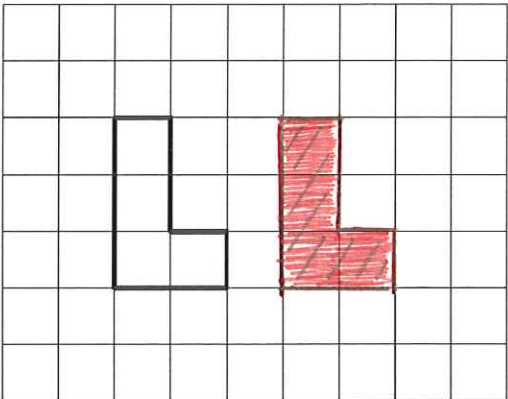
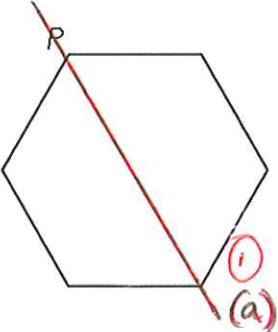


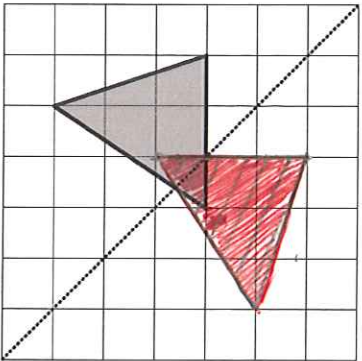
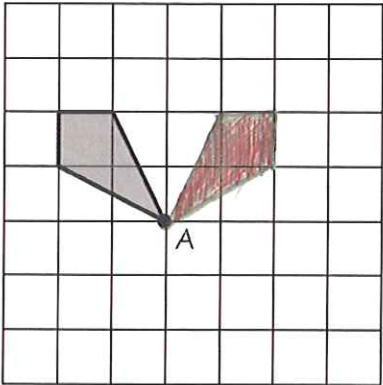
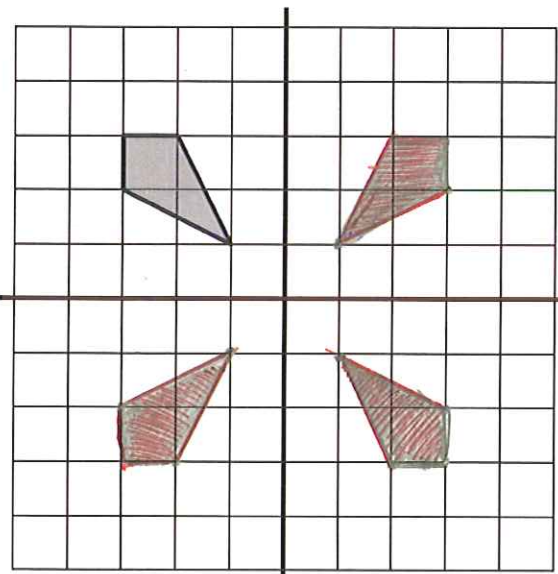
Topic test: Transformations

*Answers - all levels. (boundaries at the end).*

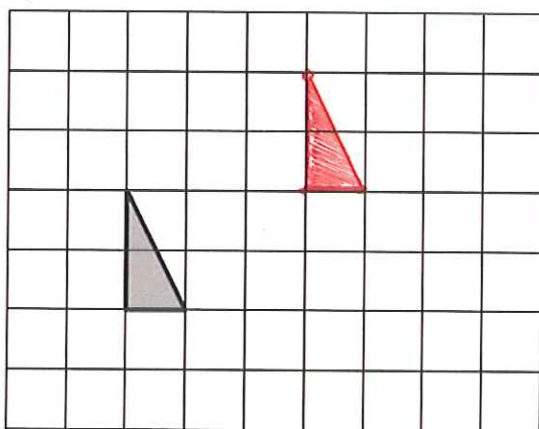
Q	Assessment Skill	marks	LEVEL
	<p>Draw in a line of symmetry</p> 	1	2
	<p>Draw in the reflection of this shape</p> 	1	2
	<p>Draw in the line of symmetry</p> 	4	3

<p>Draw in the reflections</p> 	1	4
<p>Draw in the reflection in the line of symmetry</p> 	1	4
<p>Draw the rotation of the triangle by <math>180^\circ</math> about point A</p>  <p>correct rotation ②</p> <p>△ in the right order any where on the grid ①</p>	2	4

<p>Draw the translation of the shape by 3 squares to the right</p> 	1	4
<p>A regular hexagon is drawn below</p>  <p>a) Draw a line of symmetry which passes through the point P.</p> <p>b) How many lines of symmetry does a regular hexagon have?</p> <p style="text-align: center;">6 ①</p> <p>c) What is the order of rotational symmetry of a regular hexagon?</p> <p style="text-align: center;">6 ①</p>	<p>1</p> <p>1</p> <p>1</p>	5

	<p>Draw the reflections of the triangle in the line of symmetry</p>  <p>Correct reflection (2)</p> <p>attempt made to cross over the line of symmetry. or reflection <del>is</del> right <math>\Delta</math> anywhere (1)</p>	<p>2</p> <p>5</p>
	<p>Draw the rotation of the kite by <math>90^\circ</math> clockwise about point A</p>  <p>rotation - correct (2)</p> <p>rotation <math>\rightarrow</math> anywhere on the grid (1)</p>	<p>2</p> <p>5</p>
	<p>On the grid below, show the kite reflected in two lines of symmetry.</p>  <p>(B2)</p>	<p>2</p> <p>5</p>

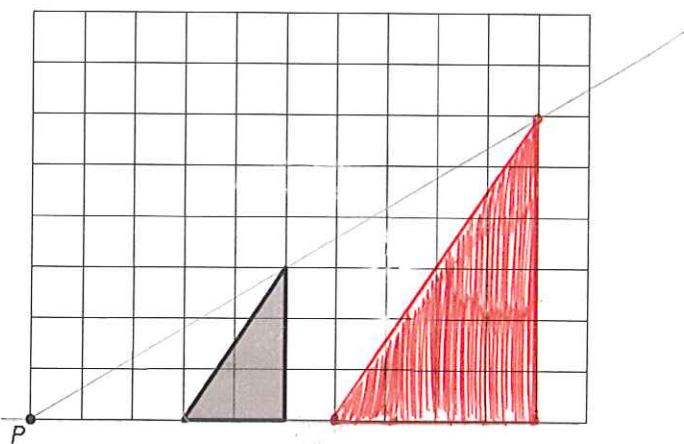
Draw the translation of the triangle  
3 squares to the right and 2 squares up



2

5

Enlarge the shape by scale factor 2,  
Using point  $P$  as a the centre of enlargement

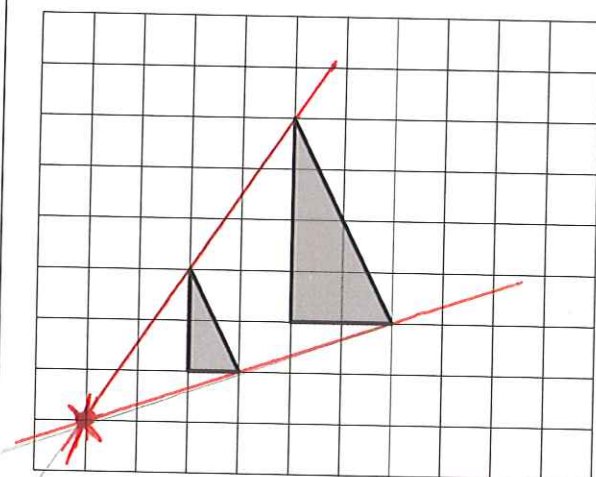


2

6

Look at the square grid below.  
The diagram shows an enlargement of scale factor 2.

Find the centre of enlargement.  
Mark the centre of enlargement with a cross.

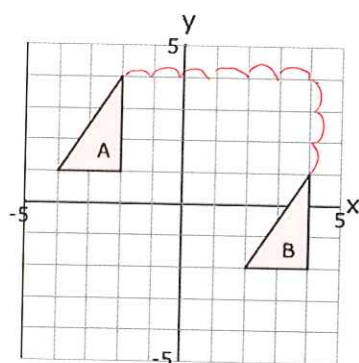


rays ①  
COE ①

2

6

Describe the transformation from shape A to shape B

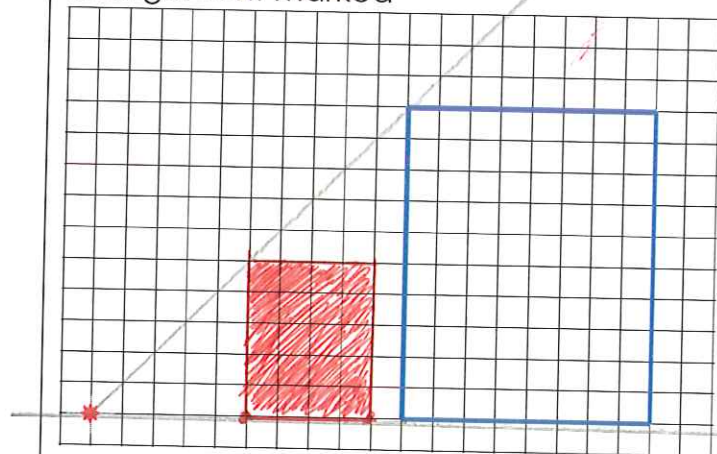


$\begin{pmatrix} 6 \\ -3 \end{pmatrix}$  ①  
①

2

6

Enlarge using the scale factor of  $\frac{1}{2}$  from centre of enlargement marked \*



Correct enlargement ①  
(any where)  
use of rays ①  
Correct enlargement ②

3

7

Level 2-4

1-2:2a 6-7:4c  
3:3c 8-9:4b  
4:3b 10-11:4a  
5:3a

Level 3-5

2:3c 6-7:4c 12-14:5c  
3:3b 8-9:4b 15-17:5b  
4:5:3a 10-11:4a 18-20:5a

Level 4-7

1-2:4c 7-10:5c 17-18:6c  
3-4:4b 11-13:5b 19-20:6b  
5-6:4c 14-16:5a 21-22:6a  
23-25:7c