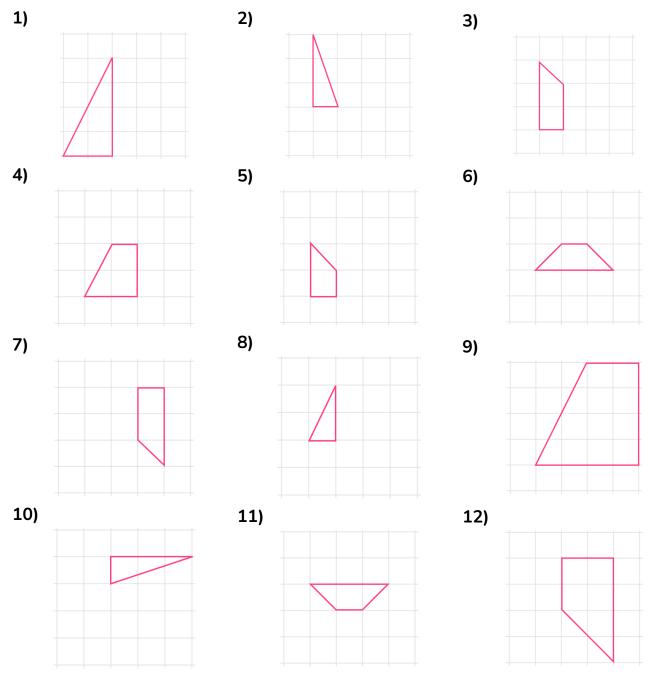


Skill

Group A - congruent and similar shapes

- a) Write pairs of shapes that are congruent.
- b) Write pairs of shapes that are similar

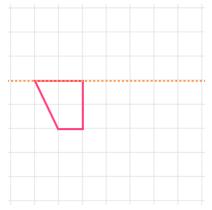




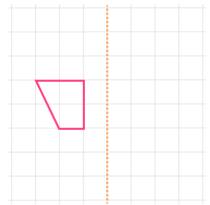
Group B - Reflect or Rotate

Carry out the transformation

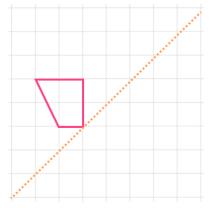
1) Reflect



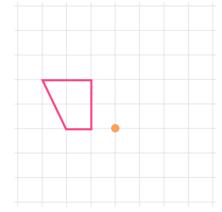
3) Reflect



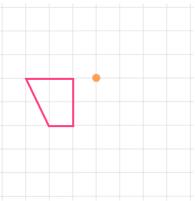
5) Reflect



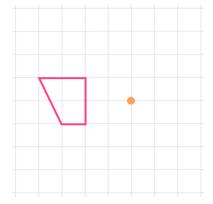
2) Rotate 180° about the point



4) Rotate 90° clockwise about the point



6) Rotate 90° anti-clockwise about the point





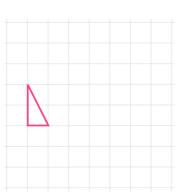


Group C - translations and enlargements

Carry out the transformation

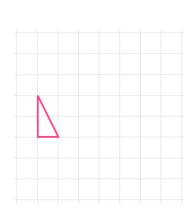
1) Translate using the vector

 $\left(\begin{array}{c}2\\3\end{array}\right)$



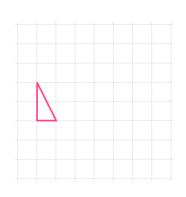
3) Translate using the vector



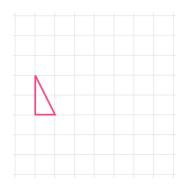


5) Translate using the vector

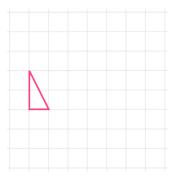




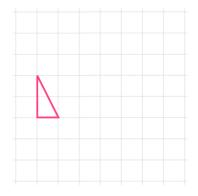
2) Enlarge scale factor 2



4) Enlarge scale factor 3

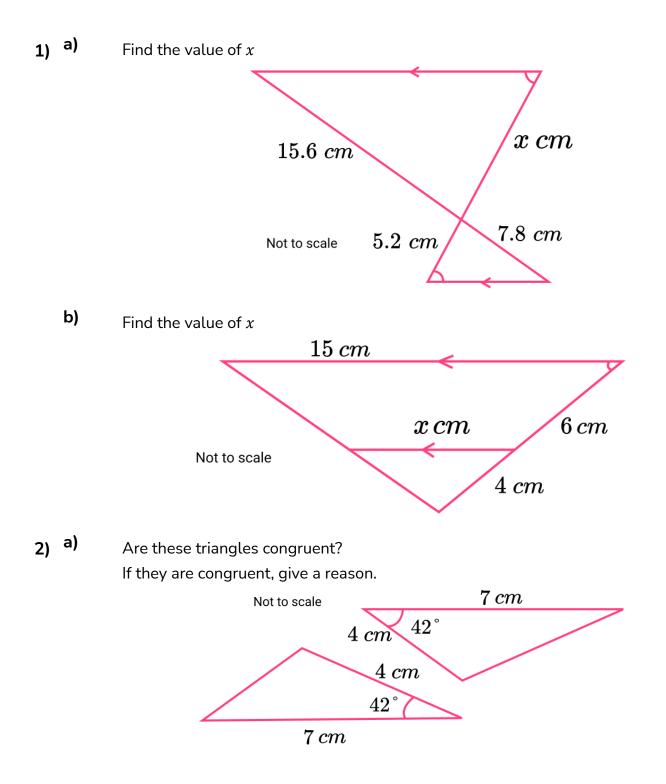


6) Enlarge scale factor 4



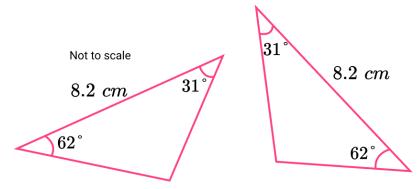


Applied

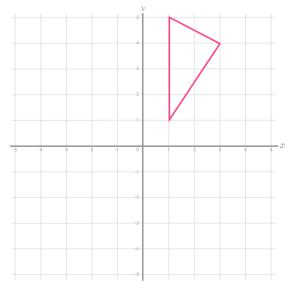




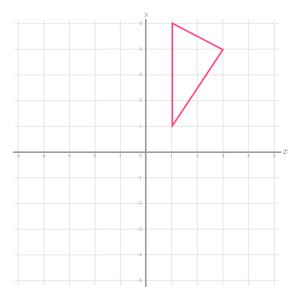
b) Are these triangles congruent? If they are congruent, give a reason.



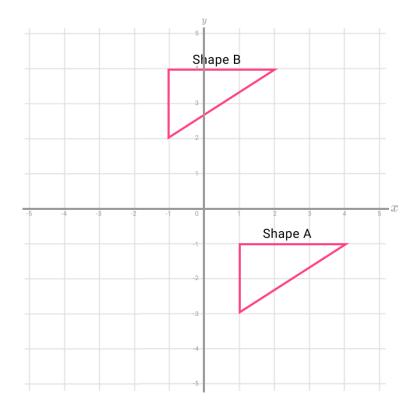
3) ^{a)} Reflect the shape in the y - axis



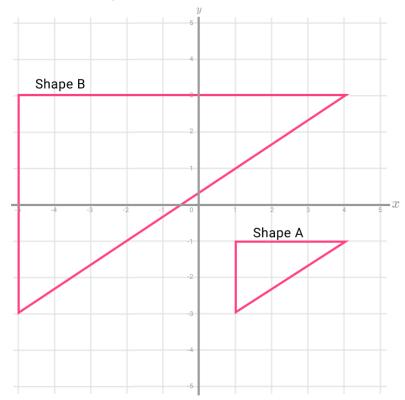
b) Rotate the shape 180° about the point (-1,1)







b) What is the scale factor of enlargement of Shape A to Shape B? What is the centre of enlargement?

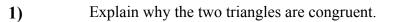


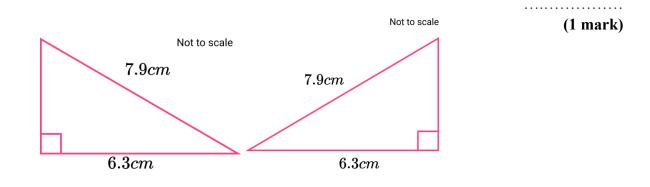




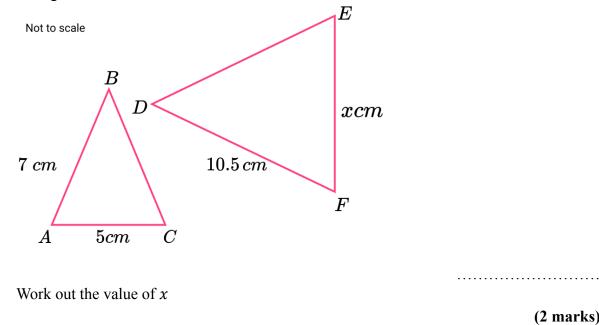
(2 marks)

Transformations - Exam Questions

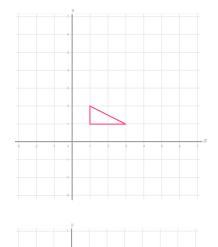




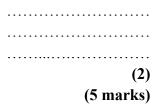
2) Triangles ABC and DEF are similar.



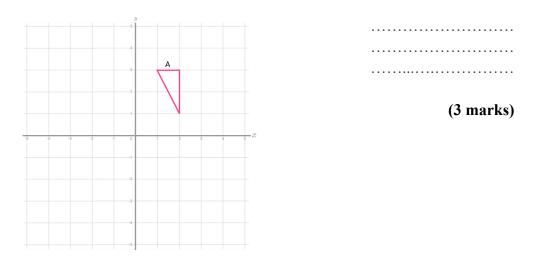
3) (a) Enlarge the shape with scale factor 2, centre (0, 0).



(b) Describe fully the single transformation that maps shape A onto shape B.



4) H Shape A is reflected in the line x = -1 to give shape B.
Shape B is reflected in the line y = 0 to give shape C.
Describe fully the single transformation that maps shape A onto shape C.

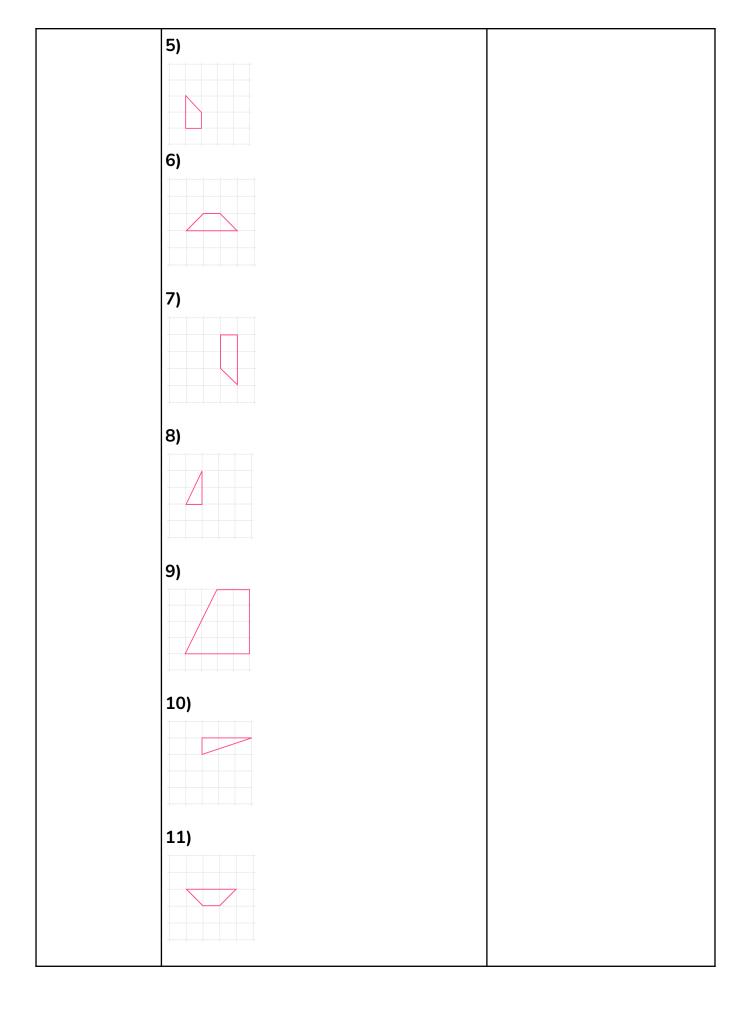




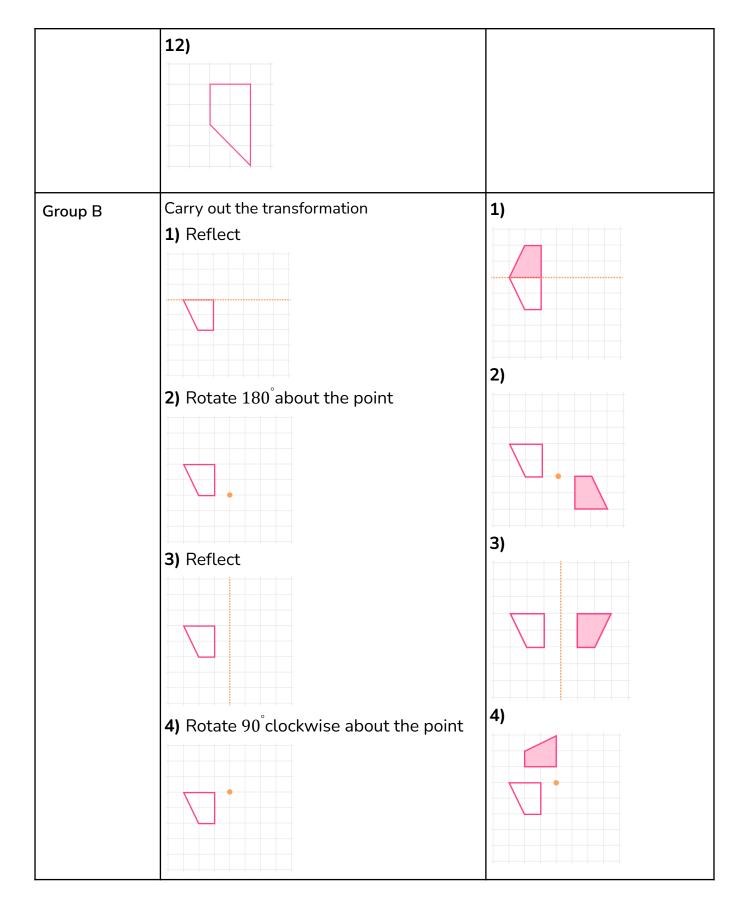


uent pairs

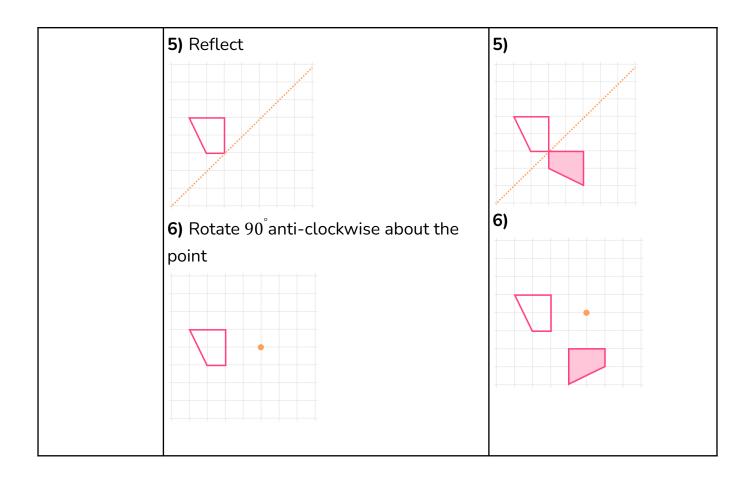










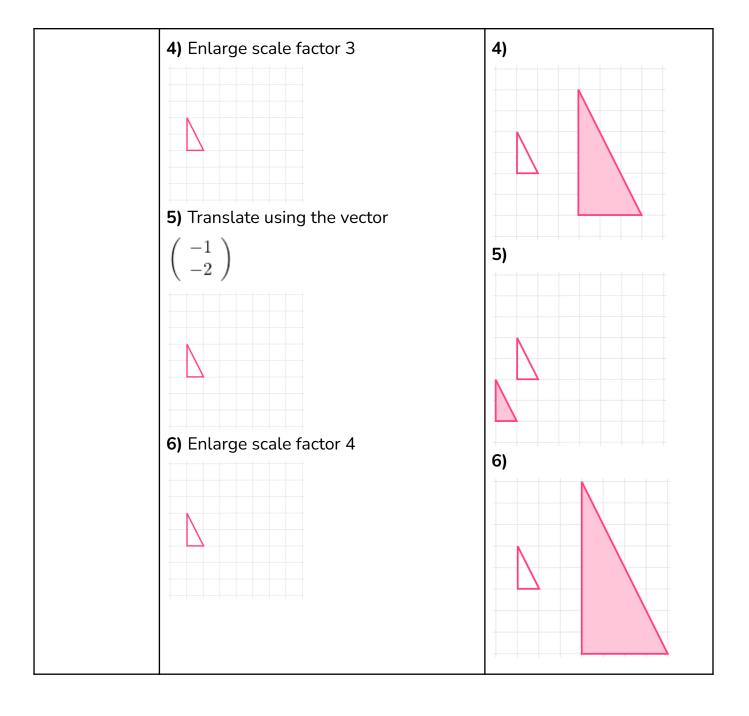






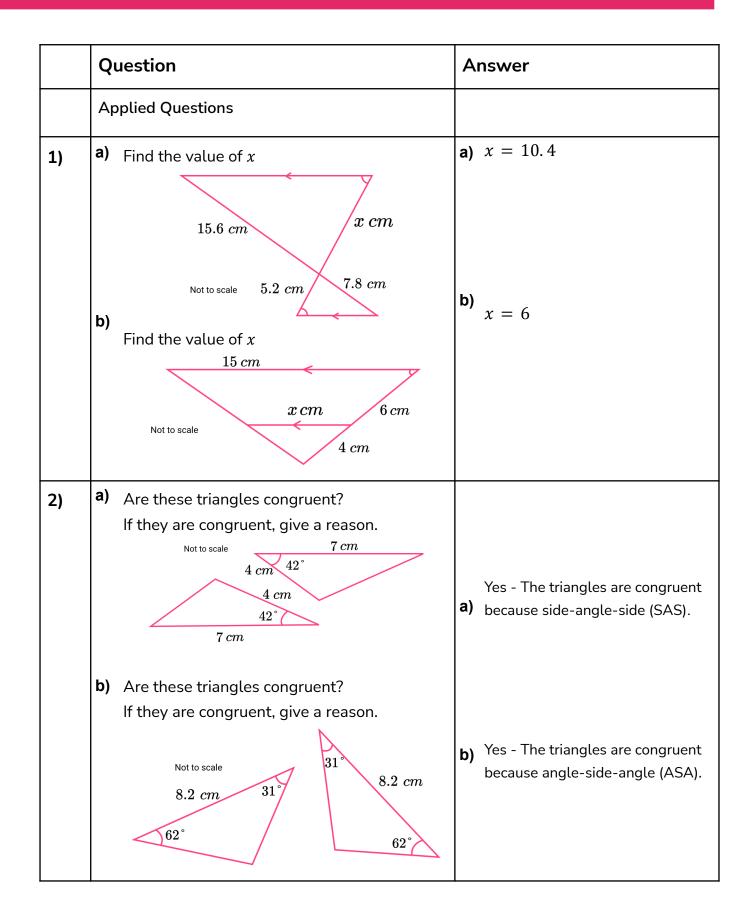
	Question	Answer
Group C	Skill Questions	
	Rubric: 1) Translate using the vector $\begin{pmatrix} 2 \\ 3 \end{pmatrix}$ 2) Enlarge scale factor 2 3) Translate using the vector $\begin{pmatrix} 4 \\ -1 \end{pmatrix}$	



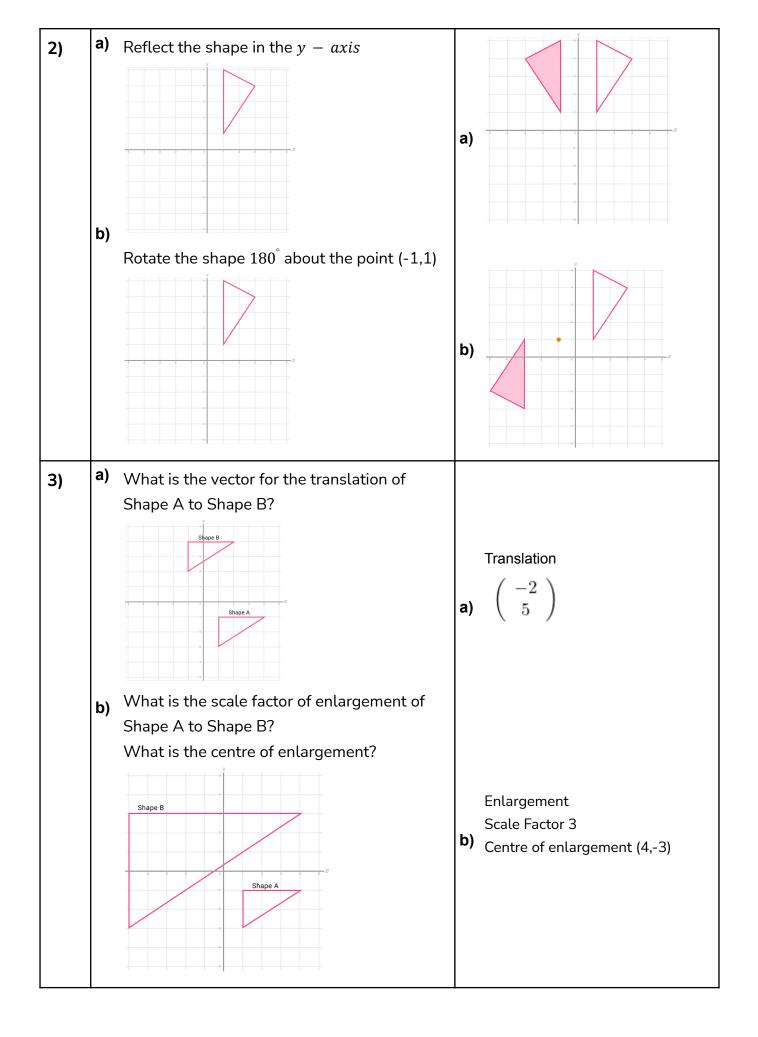










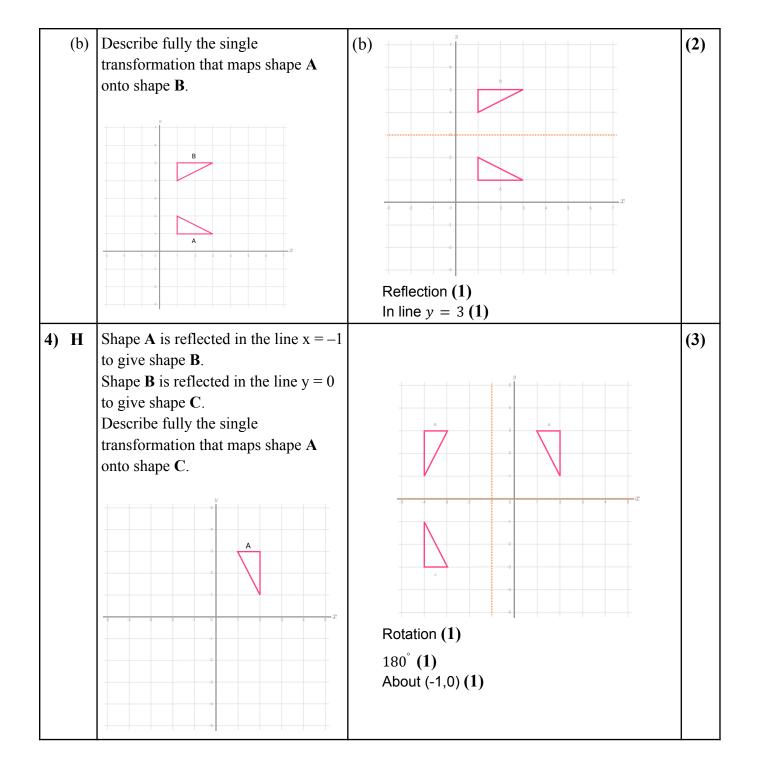






	Question	Answer	
	Exam Questions		
1)	Explain why the two triangles are congruent. Not to scale 7.9cm 7.9cm 7.9cm 6.3cm 6.3cm	Right angle, hypotenuse and one side are the same (RHS) (1)	(1)
2)	Triangles ABC and DEF are similar. Not to scale B T $CCCCCCCC$	10.5 ÷ 7 = 1.5 (1) $x = 5 \times 1.5 = 7.5$ (1)	(2)
3) (a)	Enlarge the shape with scale factor 2, centre (0, 0).	(a) For one correct vertex (1) For second correct vertex (1) For third correct vertex (1)	





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