

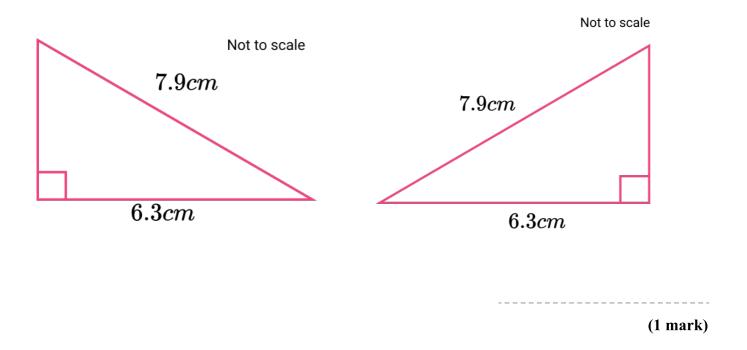
# GCSE Exam Questions

Transformations | Geometry & Measure

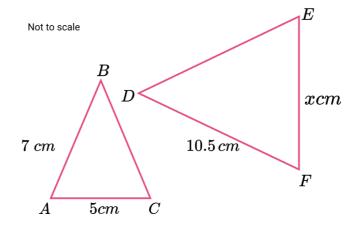


#### **GCSE Exam Questions: Transformations**

1) Explain why the two triangles are congruent.



2) Triangles ABC and DEF are two similar isosceles triangles where  $AC = k \times EF$ .



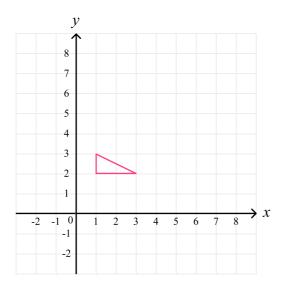
Work out the value of x

(2 marks)



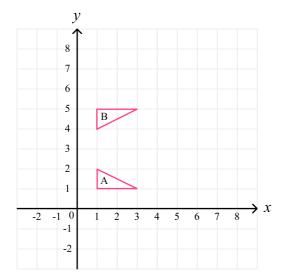
#### **GCSE Exam Questions: Transformations**

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



(3)

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



(2)

(5 marks)

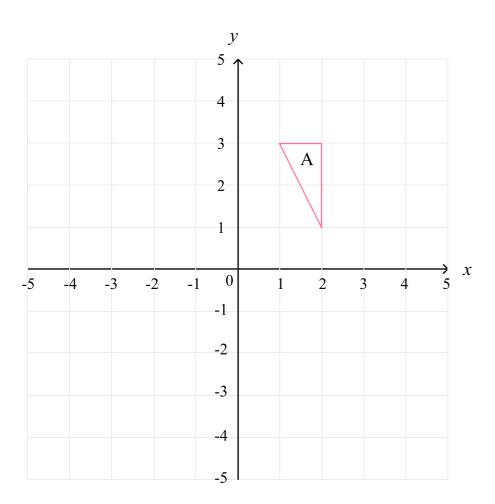


#### **GCSE Exam Questions: Transformations**

4) 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.





## **GCSE Exam Questions: Transformations Answers**

	Question	Answer	Marks
1)	Explain why the two triangles are congruent.  Not to scale  7.9cm  7.9cm  6.3cm	Right angle, hypotenuse and one side are the same (RHS)	(1)
2)	Triangles $ABC$ and $DEF$ are two similar isosceles triangles where $AC = k \times EF$ .  Not to scale $7 \ cm$ $A \ 5cm \ C$ Work out the value of $x$	$10.5 \div 7 = 1.5$ $x = 5 \times 1.5 = 7.5 \text{ cm}$	(1)
3) (a)	Enlarge the shape with scale factor 2, centre (0,0).	For one correct vertex For second correct vertex All three correct vertices	(1) (1) (1)
(b)	Describe fully the single transformation that maps shape A onto shape B.	y = 3  Reflection $y = 3$	(1) (1)



## **GCSE Exam Questions: Transformations Answers**

	Question	Answer	Marks
4)	Shape <b>A</b> is reflected in the line $x = -1$ to give shape <b>B</b> .  Shape <b>B</b> is reflected in the line $y = 0$ to give shape <b>C</b> .  Describe fully the single transformation that maps shape <b>A</b> onto shape <b>C</b> .	B  B  A  A  A  A  A  A  A  B  C  A  B  C  C  C  C  C  C  C  C  C  C  C  C	(1) (1) (1)

# Where to go next?

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