Name: marking		Date:
Teacher :		

Baldivis Secondary College

Year 7

Transformations and Symmetry

Part 2

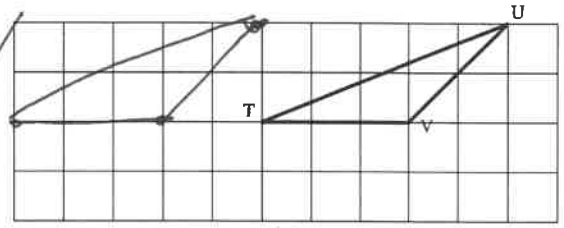
- /20

Total Time:	45 minutes	Conditions: Calculator, notes from in class preparation allowed
Weighting:	7%	
Equipment:	Calculator, pen, pencils, eraser	

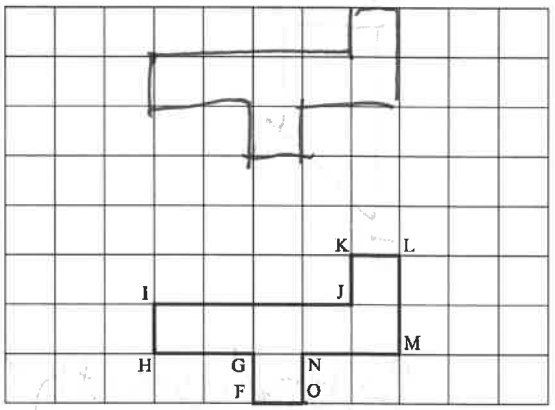
Question 1 (1 + 1 + 2 + = ~~5~~ 4 marks)

Draw the image resulting from the following transformations:
Label the vertices of the image appropriately.

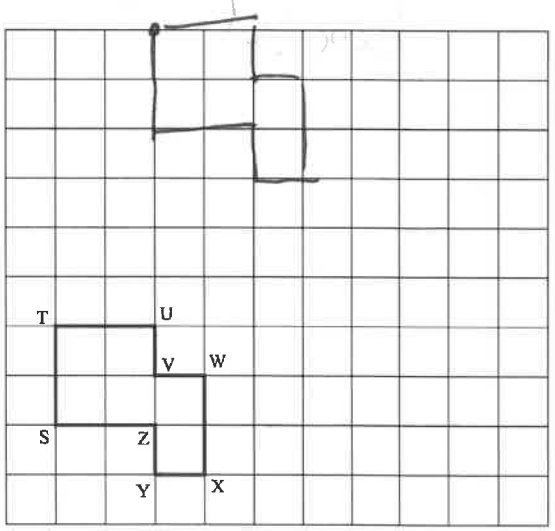
a) Translate 5 units left



b) Translate 5 units up



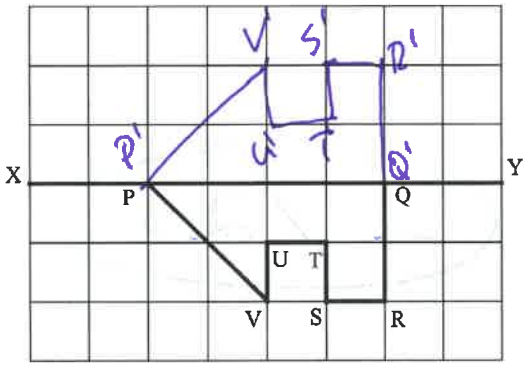
c) Translate 2 units right, 6 units up



Question 2 (2 + 2 = 4 marks)

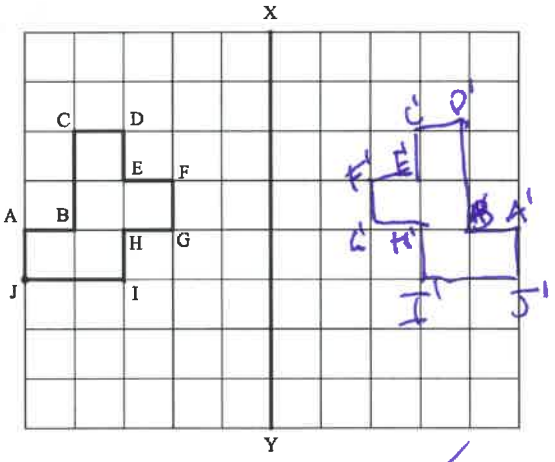
Reflect the following objects over the line XY labelling the vertices of the image appropriately.

a)



Reflection ✓
labelled ✓

b)

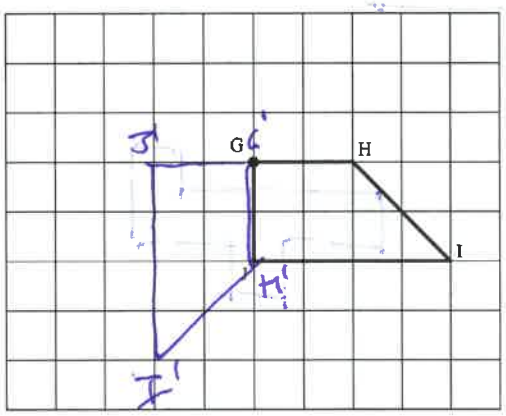


Reflection ✓
labelled ✓

Question 3 (2 + 2 = 4 Marks)

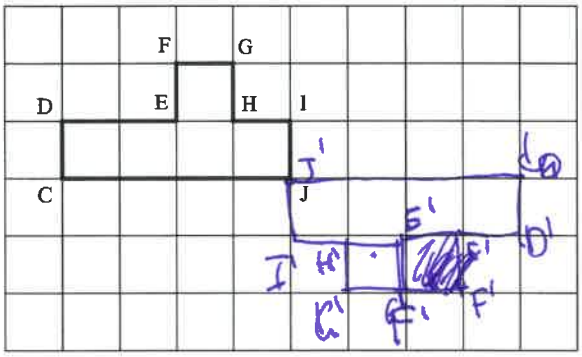
Rotate the following objects, labelling the vertices of the image appropriately:

a) 90° clockwise about point G



Rotated correctly ✓
labelled ✓

b) 180° clockwise about point J



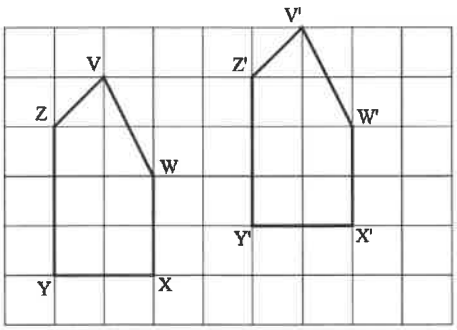
Rotated correct ✓
labelled ✓

Question 4 (2 + 2 = 4 Marks)

For each transformation below:

i) Determine what type of transformation is required to transform the object to the image shown.
ii) Give details of the transformation:
i.e.
If it is a translation state the direction and distance of the translation
If it is a reflection draw in the line of reflection
If it is a rotation draw in the centre point of rotation and
state the angle size and direction of rotation

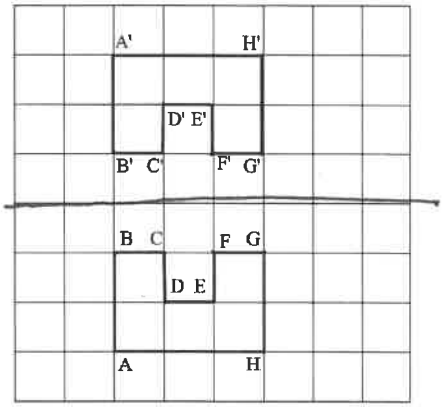
a)



i) (Type) translate ✓

ii) (Details) up 4 right ✓

b)



i) Reflection ✓

ii) Around line ✓

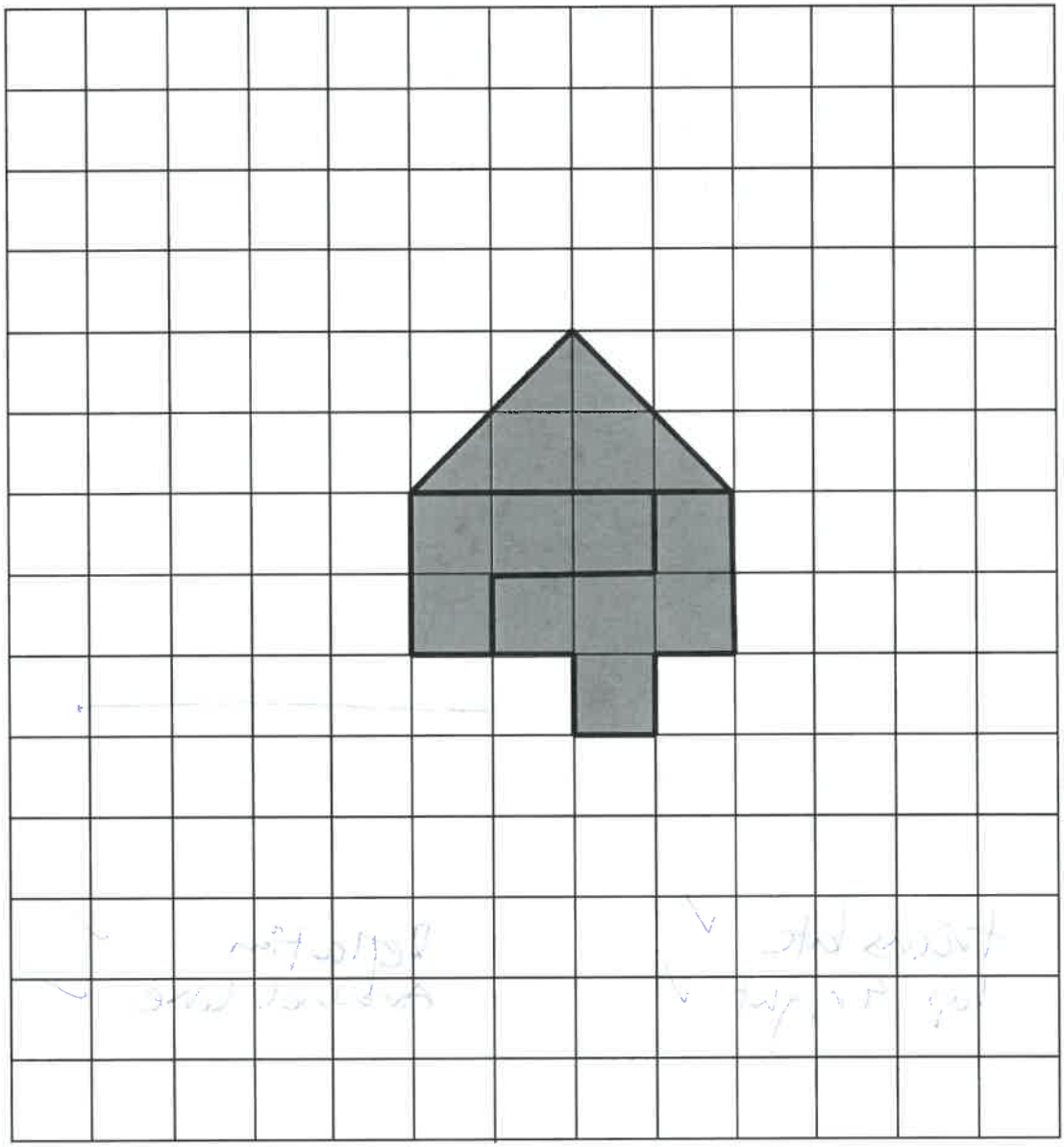
Question 5 (1 + 3 = 4 marks)

The object below has been cut into three shapes

a) Transform each object **out** of their current position*

i) Draw it in its new position (its image)

All objects moved ✓



b) Write the transformation for each of your images, to go **back to** their object.

translation described ✓

rotation described ✓

reflection described ✓

* You may use one, two or three different types of transformations (ie translation, reflection, rotation). More marks will be awarded if there is a greater variety of transformations used.