

Tenbury High Ormiston Academy Maths Department

Stage 8 Home Learning project. Autumn term 2

Name:.....

Tutor group:

Teacher:.....

Deadlines

Task 1:

Task 2:

Task 3:

Task 4:

If you have any problems with any of the tasks then please ask your class teacher or pop along to homework club on Tuesday, Wednesday or Thursday lunchtimes in room 23.

All tasks should be completed in your maths book.

TASK 1: Complete each of the tasks below.

Give the definition of each keyword.

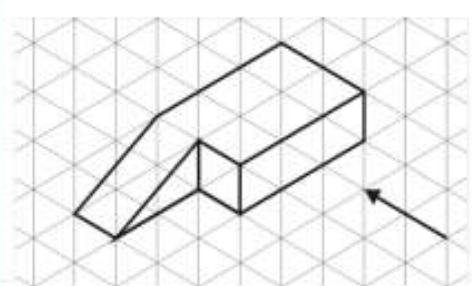
Name: _____

Plans and Elevations

Assessment Criteria	WWW	EBI
1 – I understand the different 2D views of 3D shapes		
2 – I can represent 3D shapes in 2D		
<i>Teacher comment</i>		

Literacy
Plan
Elevation
Perspective
View

Stretch!



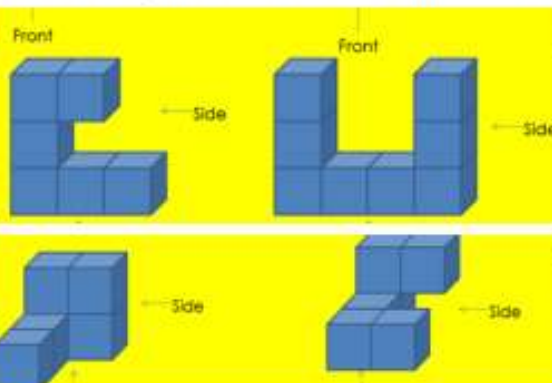
In the space below, draw the plan view and the side view of the shape above. Include units in your answer.

Plan view

Side view

Skill Practise

Draw the plan view and side view of the following shapes:



Plan view

Side view

Plan view

Side view

Apply

Draw a sketch of how a person would look from:

- the top
- the side
- the front

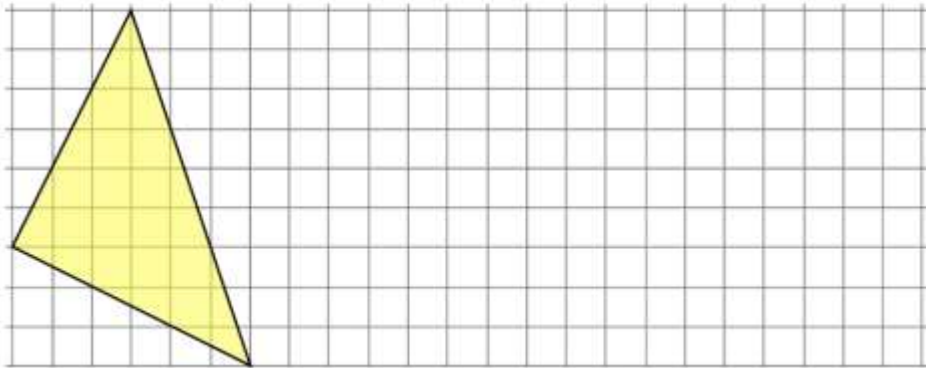
Task 2: Enlargement

1)

Draw separate enlargements of this shape using scale factor:

- (a) 2 (b) $\frac{1}{3}$ (c) $\frac{2}{3}$ (d) $\frac{4}{3}$

You will need a lot of space!



2)

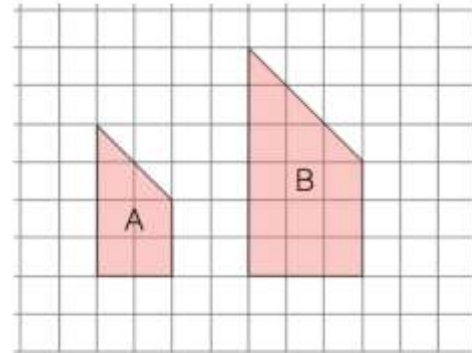


Explain the mistake

Jack writes:

Shape B is an enlargement of A by a scale factor 1.5, because each side gets 1.5 times longer.

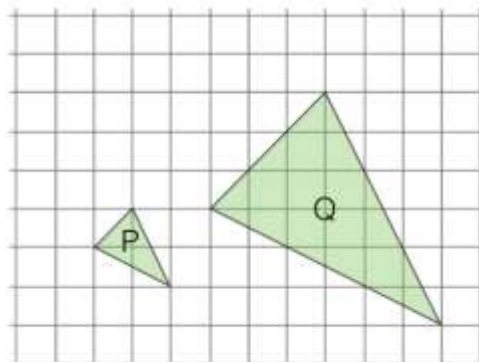
Shape A is therefore an enlargement of B by scale factor 0.5.



Jack has made a mistake. What is it?

3)

Exam-style question



- a) Shape P is enlarged to obtain shape Q. What is the scale factor of enlargement?
- b) Shape Q is enlarged to obtain shape P. What is the scale factor of enlargement?

Task 3: Computer based homework task

Using www.corbettmaths.com watch the following videos and answer the questions set in your homework book.
You must show all of your working out.

Video 246 Sample space diagrams (probability)

<i>Green</i>	<i>Amber</i>	<i>Red</i>	<i>Killer</i>
Textbook exercise Q1 and 2 Apply questions 1 and 2	Textbook exercise Q2 And 3 Apply questions 1 and 4	Textbook exercise Q3 and Q4 Apply questions 1 and 5	Textbook exercise Q4 and Q5 Apply questions 1 and 6

Task 4: UKMT maths challenge task Autumn HT2

This task will be given to you in class. You must show all your working out for each of the problems.