Year 6

Home learning

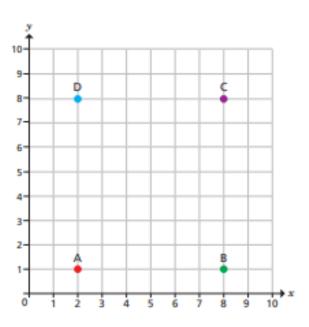
Pack 2



The first quadrant



a



a) Write the coordinates of the points A, B, C and D.





- a) Write a set of coordinates that would join to make a right-angled triangle.
 - b) Write a set of coordinates that would join to make a pentagon.
 - c) Write a set of coordinates that would join to make a trapezium.
 - d) Plot your points from parts a), b) and c) to check you are correct.



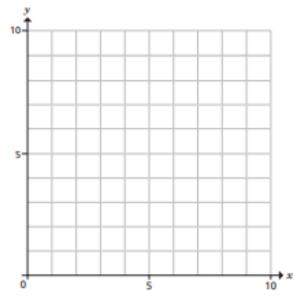
Here are coordinates for three vertices of a rectangle.

(3, 6)

(7, 3)

(7, 6)

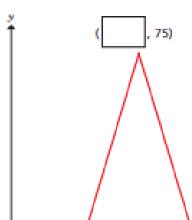
a) Plot the coordinates.



b) Write the coordinates of the fourth vertex.

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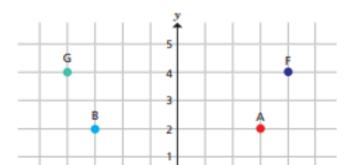
Complete the coordinate for the isosceles triangle.



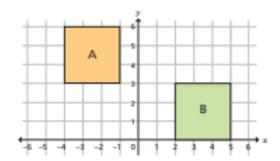
Four quadrants

White Rose Maths

1



2

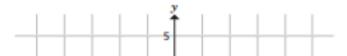


Write the coordinates for each vertex of each square.

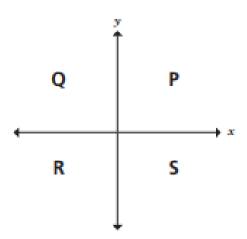
square A = _____

square B = _____

3

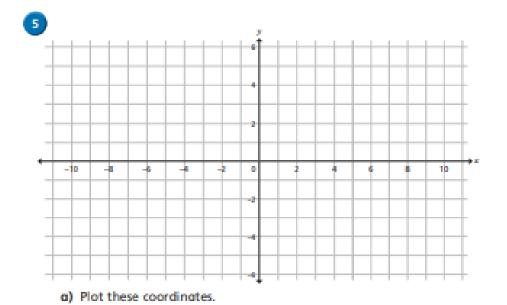


4



a) Write coordinates for 4 possible points in each quadrant.

ı	Quadrant P	Quadrant R		



(10, -5)

(-6, 3)

(-4, 2)

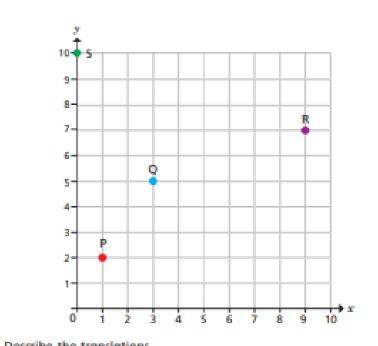
(-8, 4)

(4, -2)

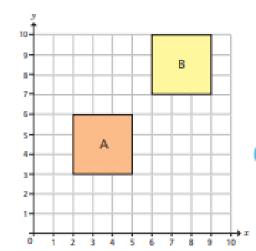
Translations



1



2



The translation from A to B is 1 right and 1 up.

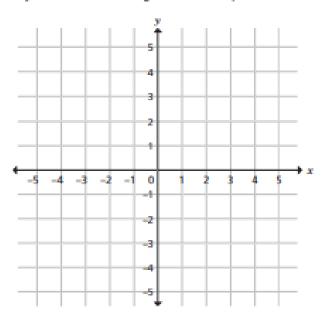


Do you agree with Rosie? _____ Explain your answer.

Translate the triangle 6 left.

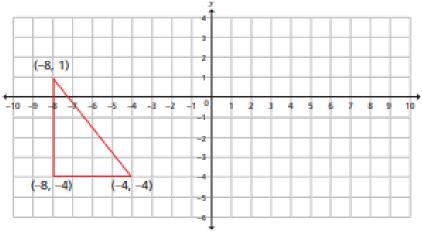
These coordinates form a quadrilateral: (-5, 5), (-5, 1), (-1, 4), (-1, 2) It is translated 3 right and 4 down.

Draw the quadrilateral on the grid in its new position.





A triangle is drawn on the coordinate grid.



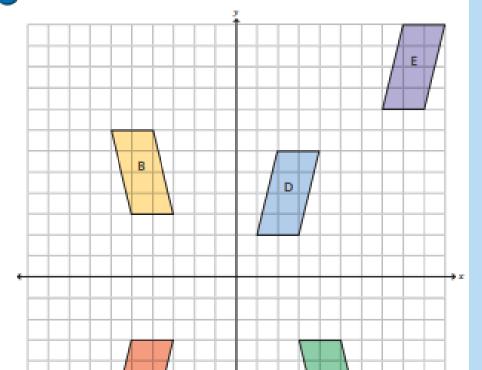
- a) Translate the triangle 9 right and 1 down.
- b) Tick the correct box for each coordinate.

Point	Inside the new triangle	Outside the new triangle	On the perimeter of the new triangle
(0, 0)			
(4, -5)			
(2, -1)			
(-6, -3)			
(3, -4)			

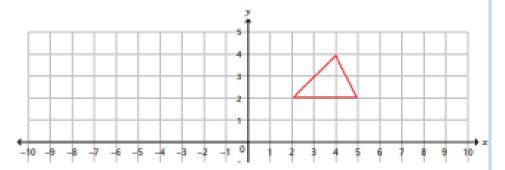
Reflections

Maths

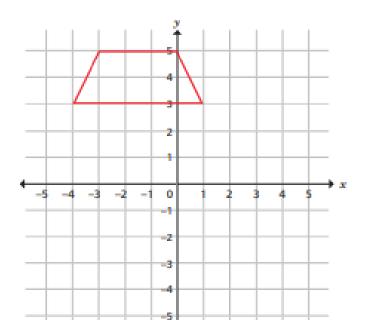
Five parallelograms are shown on the coordinate grid.



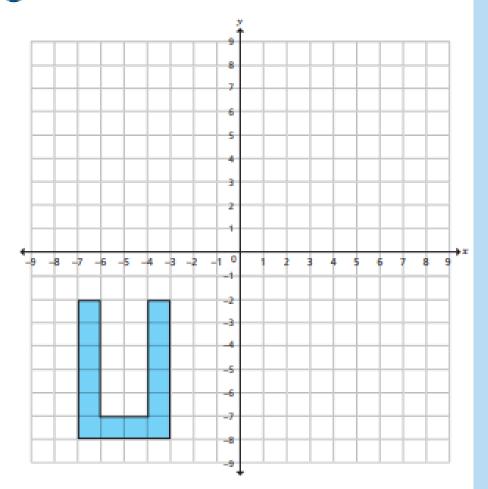
Reflect the triangle in the y-axis.





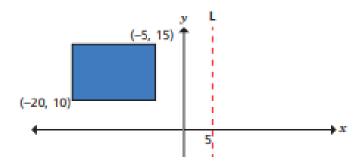


An octagon is shown on the coordinate grid.



- a) Reflect the shape in the x-axis.
- b) Translate the new shape 10 right and 10 down.

The shape is reflected in the line marked L.

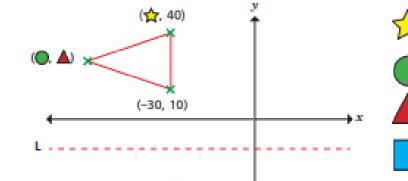


Work out the coordinates of the new vertices.

The new vertices are at



The isosceles triangle has been reflected in the line marked L.
Work out the missing values.

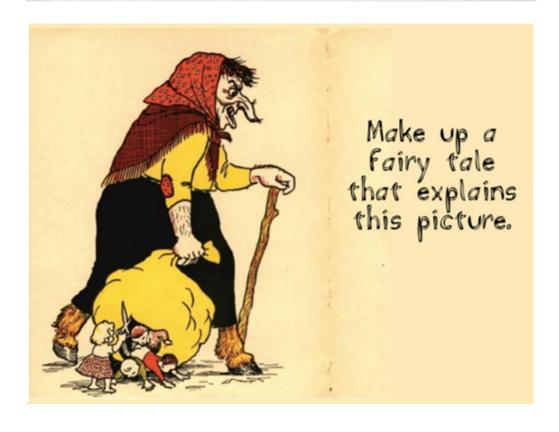


Writing Prompts



"Bad decisions make good stories."

Tell a story in which bad decisions are made.



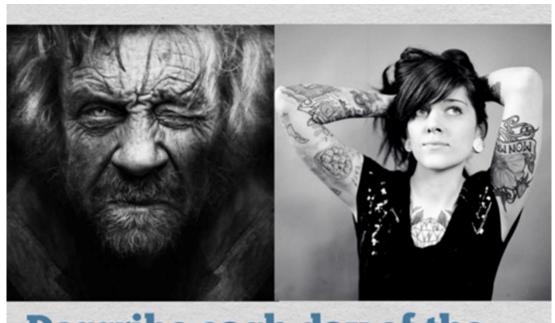


Tell a story from the perspective of a painting in a museum.

l. Draw a monster.

2. Write a plausible backstory for the monster that makes it a sympathetic character.





Describe each day of the week as if it was a person.



