

SCORE

Geometry

With Classified
answer book

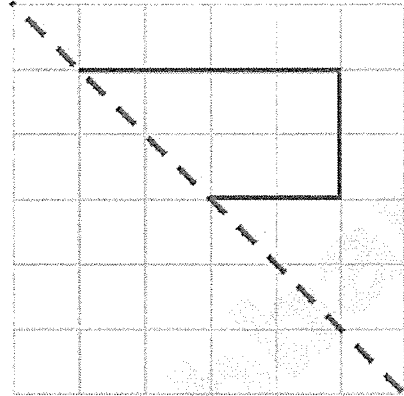
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Eng. Magda El-Labban

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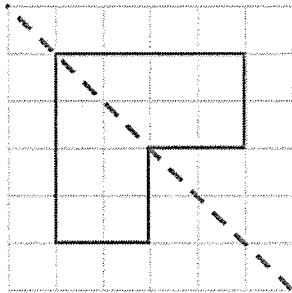
13- Reflection

1. Amir and Mo are both trying to reflect this shape in the line shown.

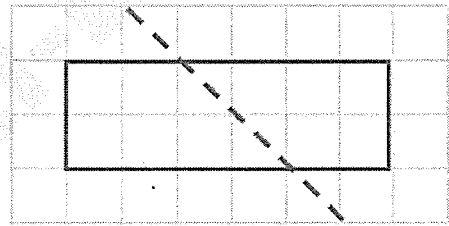


Compare their answers.

Amir

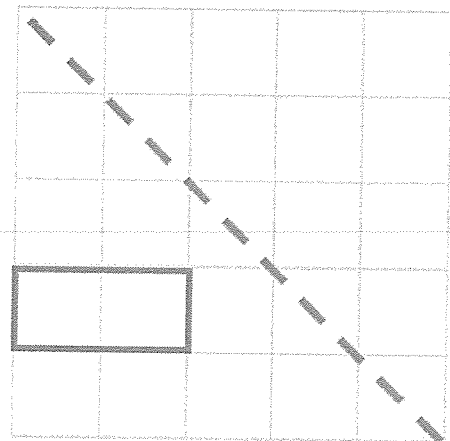
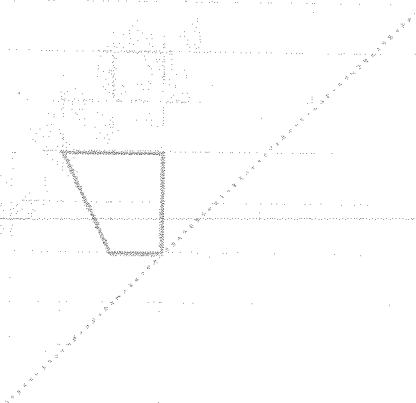
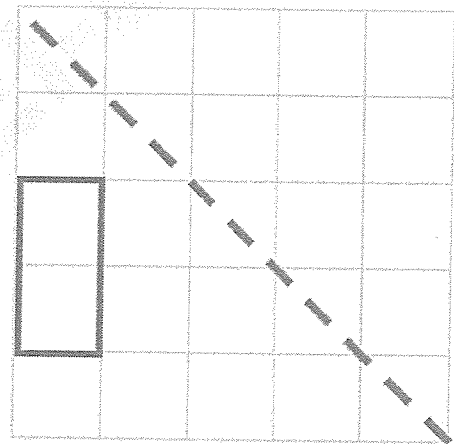
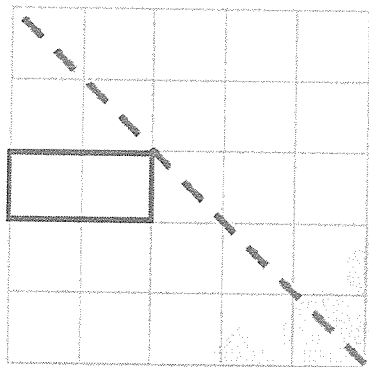
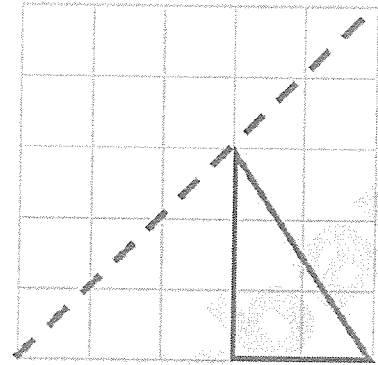
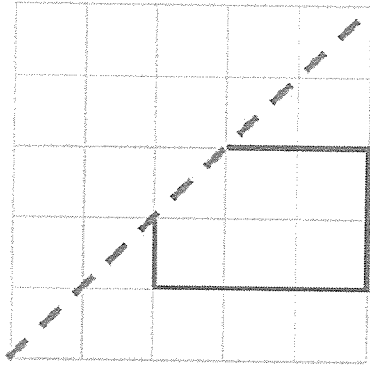


Mo

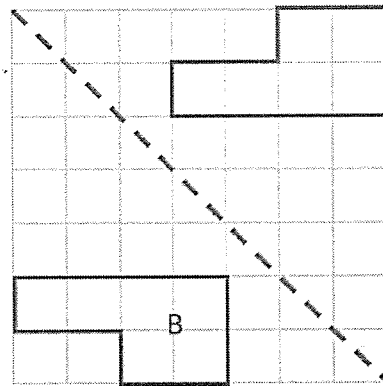
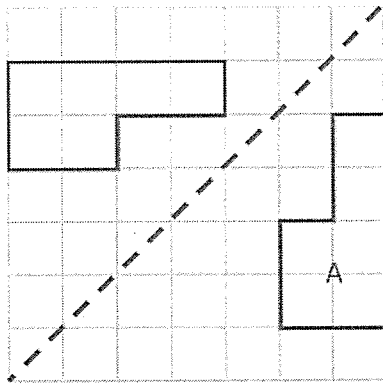


Who do you agree with? Why? Use a mirror to check.

2. Reflect the shapes in the lines shown.



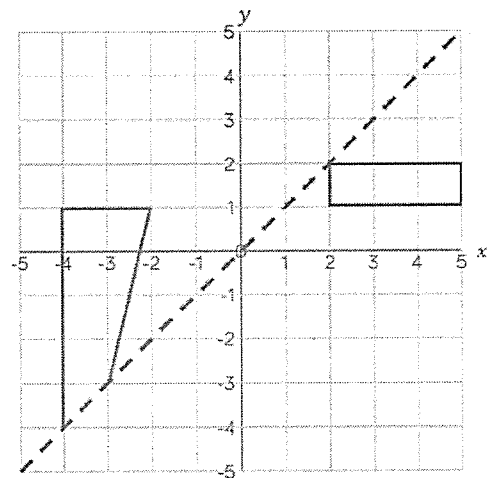
3. Dora has reflected both shape A and shape B incorrectly.



Draw the shapes and the correct reflections.

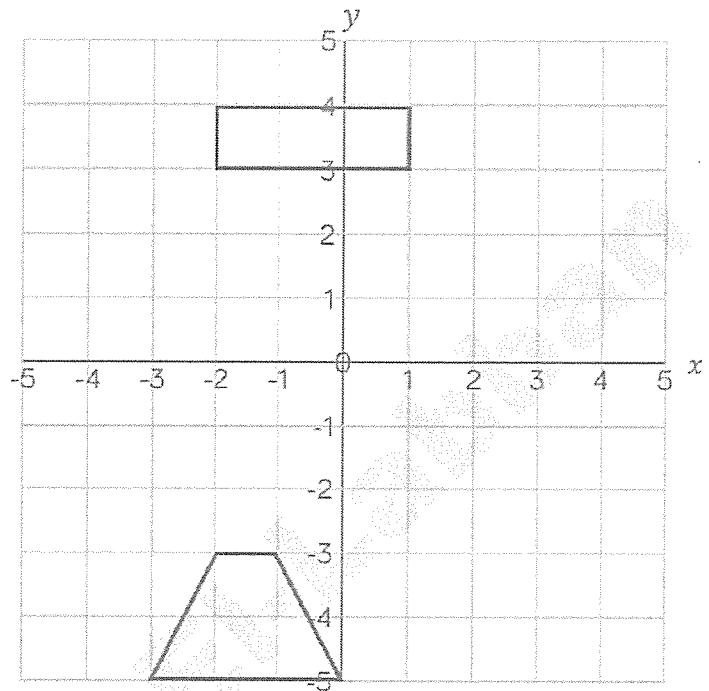
4. What is the equation of the diagonal line going through $(0, 0)$, $(1, 1)$ etc.?

Reflect both shapes in this line.



5. (a) Reflect the rectangle and the isosceles trapezium in:

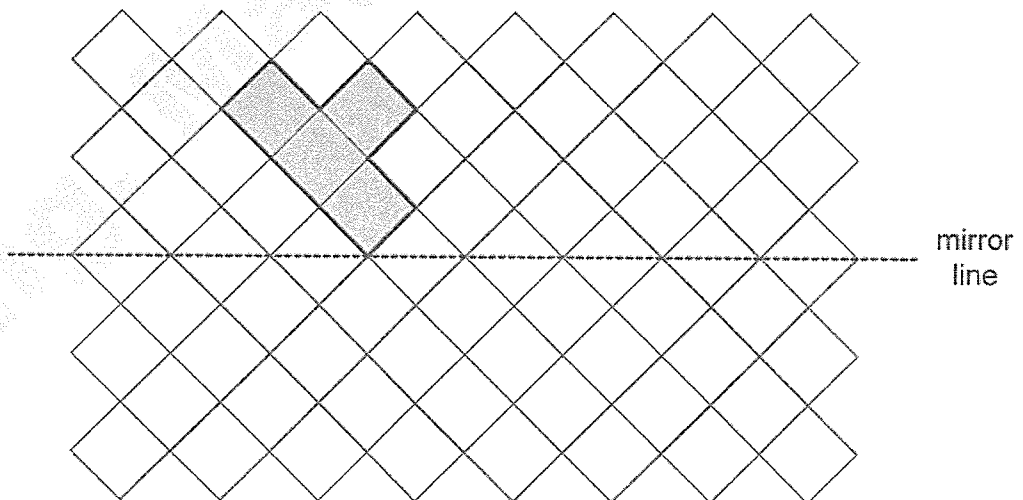
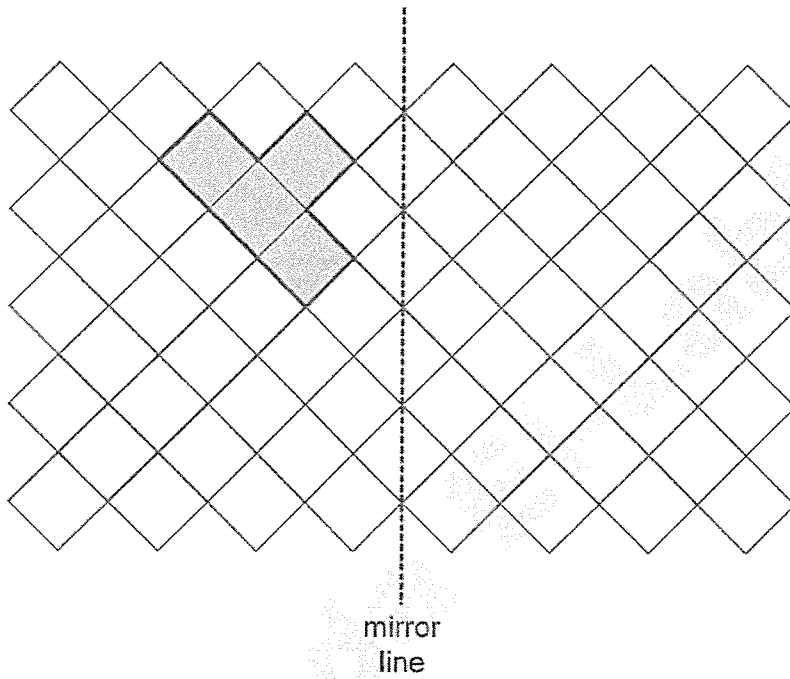
the line $y=x$ the line $y=-x$



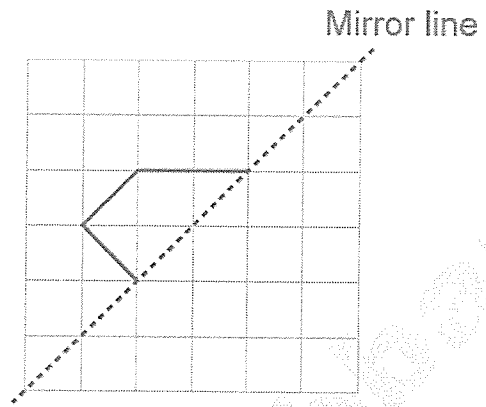
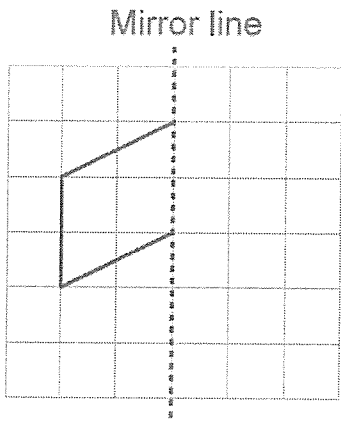
(b) Plot the points $(1, 5)$, $(-2, 3)$ and $(1, -2)$, and join them to form a triangle.

(c) Reflect the triangle in the line $y = x$

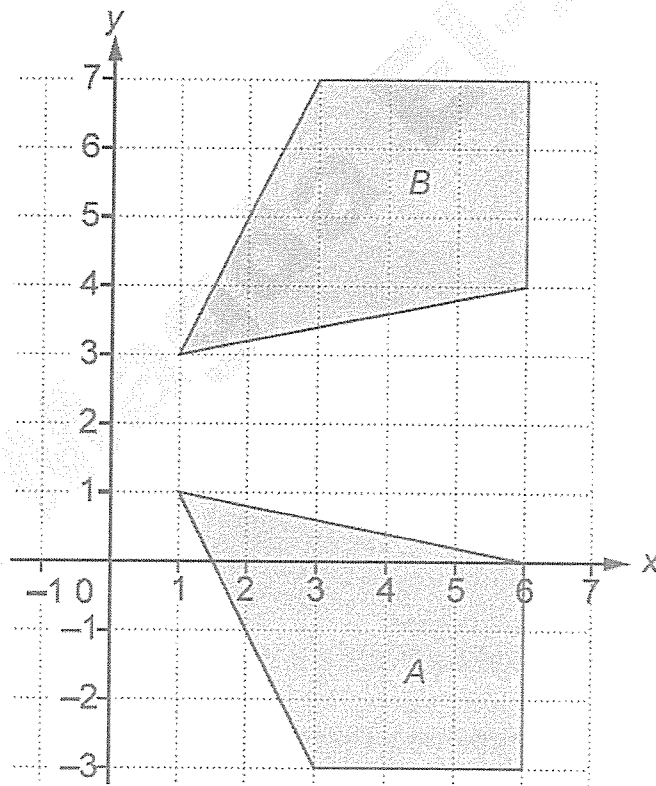
6. The shaded shapes in this question are drawn on square grids.
The mirror lines are shown.
Draw the reflection of each shape.



7. The diagrams in this question are drawn on square grids. Reflect the shapes in the mirror lines.



8. Quadrilaterals A and B are drawn on the grid.

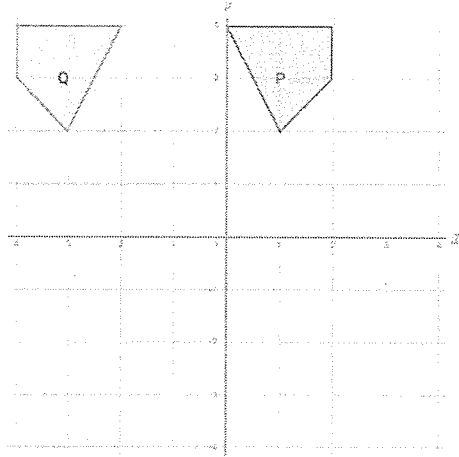


Describe fully the single transformation that maps A onto B.

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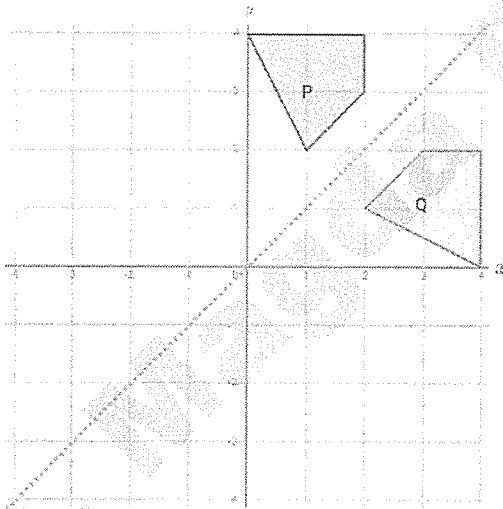
9. a) Shape Q is the image of shape P.

Give the equation of the line of reflection.

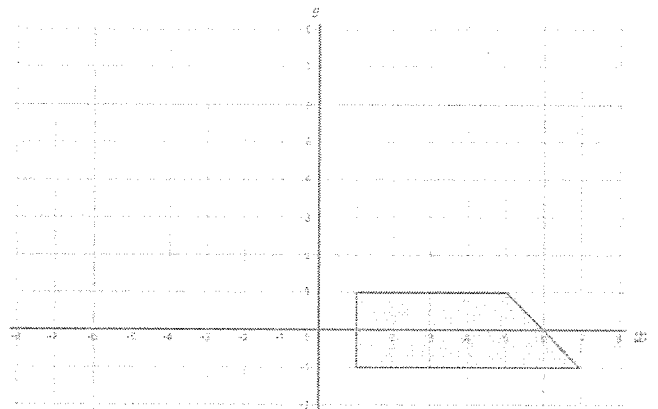


b) Shape Q is the image of shape P.

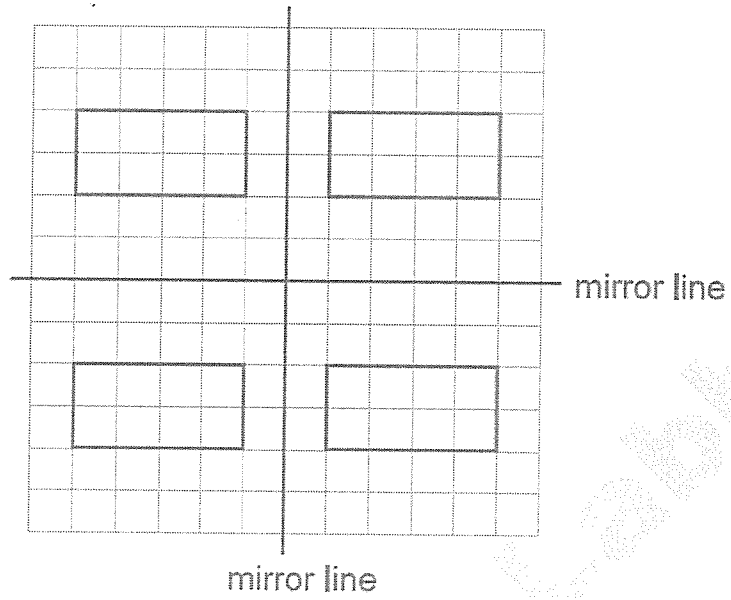
Give the equation of the line of reflection.



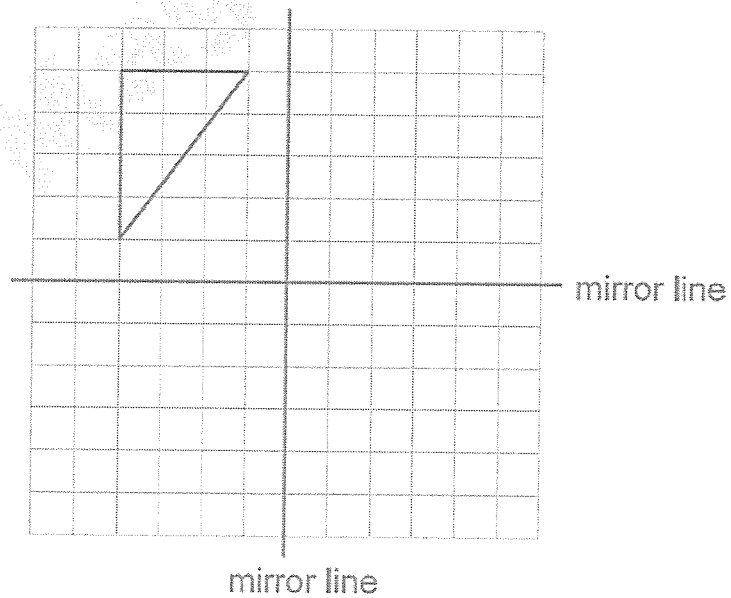
10. On the grid, reflect the shape in the line with the equation $Y = 3$



11. The square grid shows a rectangle reflected in two mirror lines.

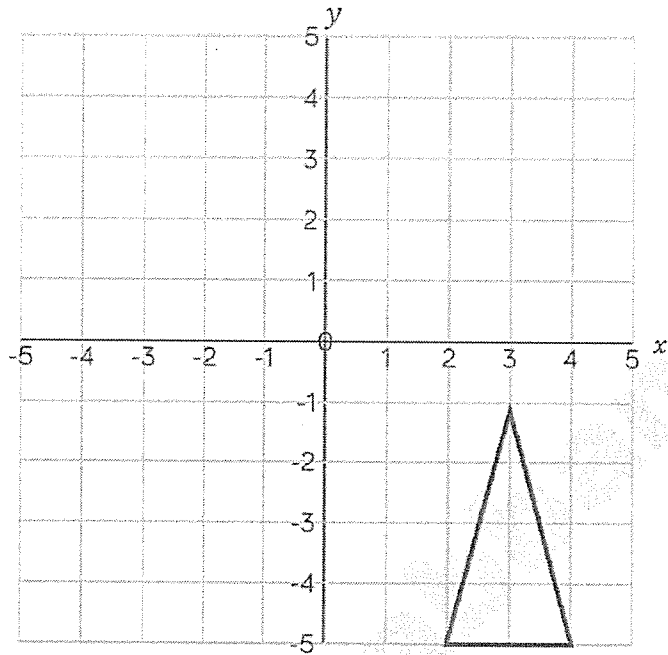


On the square grid below, show the **triangle** reflected in the two mirror lines.



12. Reflect the triangle:

- in the x-axis in
- the y-axis in
- the line $x=1$ in
- the $y=-1$ in
- the $y=-3$



13. Write down the coordinates of the vertices of the parallelogram.

Compare these with the coordinates of the vertices of the parallelogram formed by:

reflecting in the y -axis reflecting in the x -axis

