

## Bronze

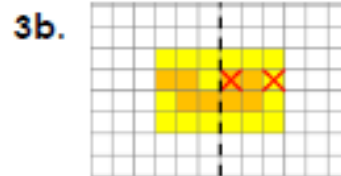
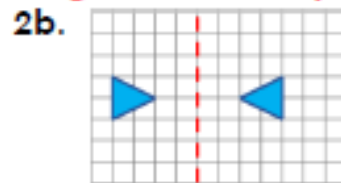
1a. A is incorrect, B is correct.



3a. A = (1, 1), B = (5, 2), C = (9, 1)

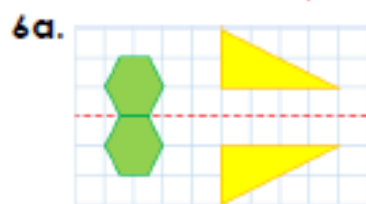
4a. B

1b. Sara's reasoning is correct, but the reflection she has drawn is incorrect as the heights of the shapes are different.



## Silver

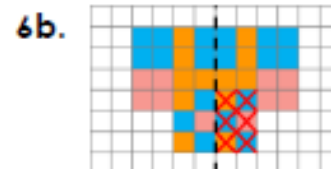
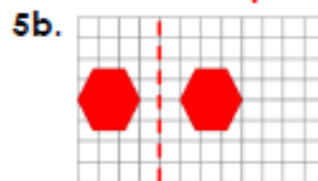
5a. A is incorrect, B is incorrect.



7a. A = (4, 3), B = (3, 5), C = (2, 2),  
D = (1, 4)

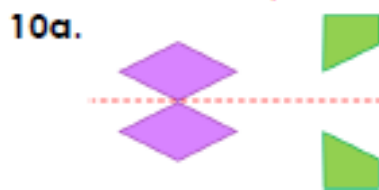
8a. B

4b. Sonny is partly correct. The reflection should touch the mirror line if the original shape also does this. However, Sonny has reflected the triangle incorrectly. He has moved the shape instead of reflecting.



## Gold

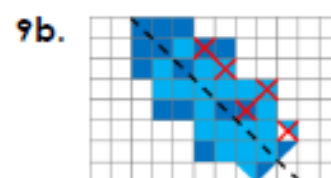
9a. A is correct, B is correct.



11a. A = (4, 4), B = (5, 1), C = (8, 3),  
D = (6, 0)

12a. B

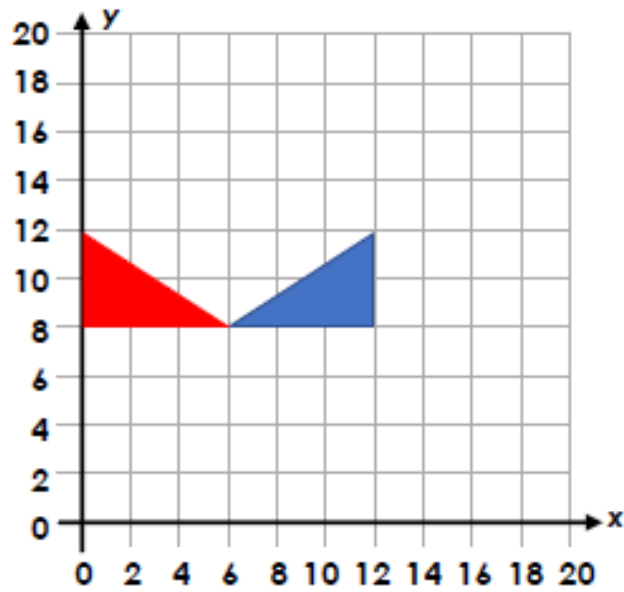
7b. Maya's reasoning is partly correct. It is important that the reflected shape is the same size as the original. However, she has not reflected all the shapes. The trapezium has only been moved.



## Challenge

1. Bushra is reflecting the triangle around the grid.

Explore all the different ways possible to reflect the shape given in the first quadrant.



What are the new coordinates of all the different reflections?

Various possible answers include:  $(0, 8)$ ,  $(0, 12)$ ,  $(6, 8)$