

Reasoning and Problem Solving

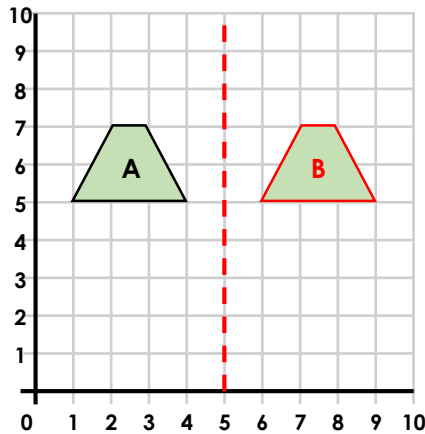
Reflection with Coordinates

Developing

1a. The Y axis is reversed and numbered incorrectly. Shapes A and C are not reflected correctly.

2a. H

3a. Nolan is incorrect. You can reflect Shape A in order to use the coordinate (8, 7) as shown below:



Reasoning and Problem Solving

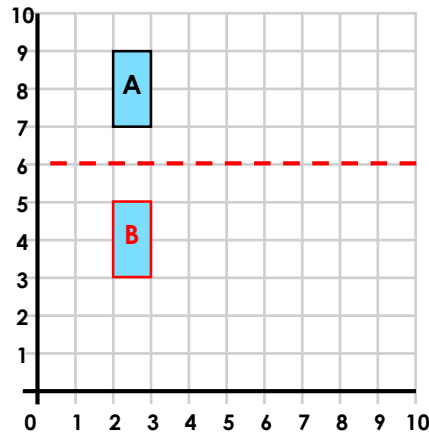
Reflection with Coordinates

Developing

1b. Shape C is not reflected correctly as it is bigger. Shape D is not reflected correctly.

2b. M

3b. Shania is incorrect. You can reflect Shape A in order to use the coordinate (2, 5) as shown below:

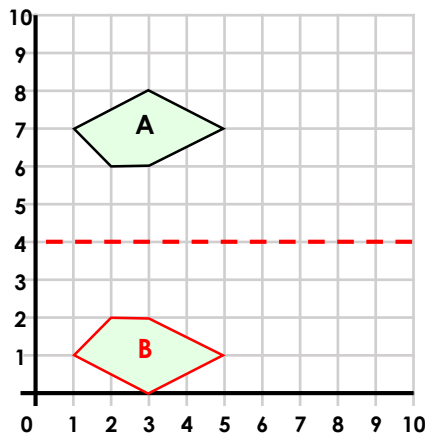


Expected

4a. The X axis is numbered incorrectly; 6 and 7 are the wrong way round. Shape D is not reflected correctly. The second coordinate for shape B is incorrect; it should be (5, 9).

5a. A star

6a. Melody is incorrect. You can reflect Shape A in order to use the coordinate (3, 0) as shown below:

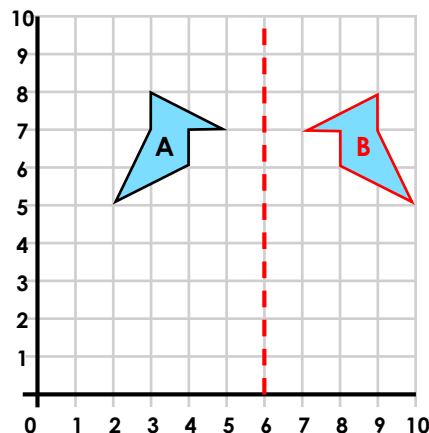


Expected

4b. The Y axis is not numbered on the lines. The mirror line is not straight. The last coordinate for Shape D is written the wrong way round; it should be (5, 0) not (0, 5).

5b. A love heart

6b. Luca is incorrect. You can reflect Shape A in order to use the coordinate (10, 5) as shown below:



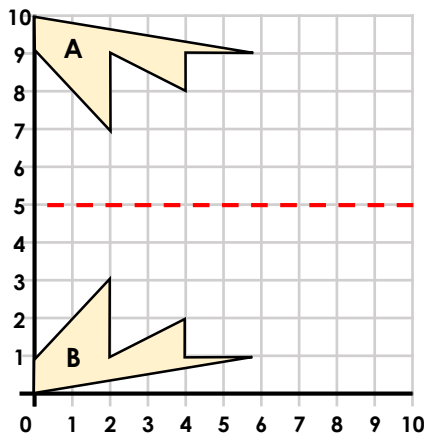
Reasoning and Problem Solving Reflection with Coordinates

Greater Depth

7a. The vertical mirror line is not on a line. All three coordinates are reversed for Shape B and are incorrect; They should be (4, 8), (4, 6) and (3, 6). The last coordinate for Shape C is incorrect; it should be (8, 9) not (8, 8).

8a. A flower

9a. Riley is incorrect. You can reflect Shape A in order to use the coordinate (0, 1) as shown below:



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Greater Depth

7b. Shape D is reflected incorrectly. The coordinates for Shape C are missing completely. The last coordinates for Shapes A, B and C are all incorrect as they are reversed. They should be (2, 5), (6, 8) and (5, 2) not (5, 2), (8, 6) and (2, 5).

8b. A butterfly

9b. Sanai is incorrect. You can reflect Shape A in order to use the coordinate (8, 9) as shown below:

