

Reasoning and Problem Solving

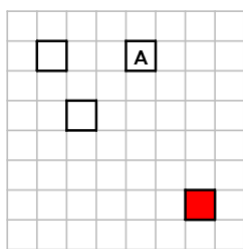
Translation

Developing

- 1a. Niall has translated shape A incorrectly. He has translated it 1 right instead of 1 left.
- 2a. 1 left, 0 down
- 3a. No, mirrors are used to reflect shapes.

Expected

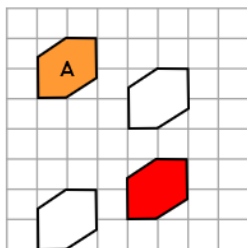
- 4a. Megan has incorrectly translated the shape 1 left, 4 down. She has only moved it 3 down. The shape needs to move down another square.
- 5a. 2 right, 5 down



- 6a. Yes. Left or right comes before up or down as this is the order coordinates are also read. Children should support their answer by drawing their own example of a translation.

Greater Depth

- 7a. Clarissa has incorrectly translated the shape 3 right, 3 down. She has only moved it 2 down. The shape needs to move down another square.
- 8a. 3 right, 4 down



- 9a. No, one diagonal instruction would not work as the direction of translation would not be clear. Children should support their answer by drawing their own example of a translation.

Reasoning and Problem Solving

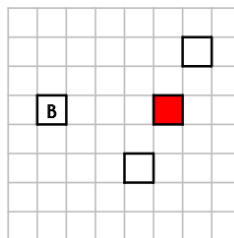
Translation

Developing

- 1b. Melissa has translated shape B incorrectly. She has translated it 2 up instead of 1 up.
- 2b. 2 right, 3 up
- 3b. No, the dimensions stay the same.

Expected

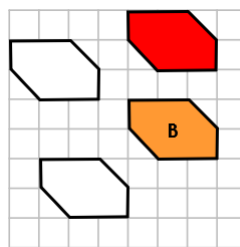
- 4b. Peter has not correctly translated each point of the shape (1 right and 3 up) so this has changed the size of the shape.
- 5b. 4 right, 0 down



- 6b. No. The angles stay the same as the dimensions do not change. Children should support their answer by drawing their own example of a translation.

Greater Depth

- 7b. Jace has incorrectly translated the shape 5 left, 4 down. The shape needs to move 1 square left and 1 square down.
- 8b. 0 right, 3 up



- 9b. Yes, you are more likely to get an accurate translation this way. Children should support their answer by drawing their own example of a translation.