Read grids and translate

Stage 03 | Perform | 8 mixed items

Stage 03: Translate a vertex

Perform

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. Translate P(0, 2) by vector (-3, -1). State P' as (x, y).

2. Translate P(1, 3) by vector (2, 0). State P' as (x, y).

3. Translate P(2, 4) by vector (-3, 1). State P' as (x, y).

4. Translate P(-3, 2) by vector (2, -1). State P' as (x, y).

5. A move has vector (-3, 0). What is its horizontal displacement?

6. A move has vector (2, 1). What is its horizontal displacement?

7. Diagnose an error. Translate P(0, 2) by vector (-3, -1). State P' as (x, y). A learner answers “(1, -3)”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. Translate P(1, 3) by vector (2, 0). State P' as (x, y).

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.

Mr. Devonish