Read grids and translate

Stage 05 | Connect & Justify | 8 mixed items

Stage 05: Recover the translation vector

Connect & Justify

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. P(2, 4) maps to P'(-1, 5). State the translation vector.

2. P(-3, 2) maps to P'(-1, 1). State the translation vector.

3. P(-2, 3) maps to P'(-5, 3). State the translation vector.

4. P(-1, 4) maps to P'(1, 5). State the translation vector.

5. Triangle A(0, 2), B(2, 2), C(0, 3) moves by (-3, -1). State C'; draw all three images on paper.

6. Triangle A(1, 3), B(3, 3), C(1, 4) moves by (2, 0). State C'; draw all three images on paper.

7. Diagnose an error. P(2, 4) maps to P'(-1, 5). State the translation vector. A learner answers “(1, -3)”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. P(-3, 2) maps to P'(-1, 1). State the translation vector.

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.

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