Read grids and translate

Stage 06 | Transfer & Solve | 8 mixed items

Stage 06: Connect to a graph shift

Transfer & Solve

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. A graph point P(-3, 2) moves 2 units horizontally and -1 vertically. State the original point if its shifted image is (-1, 1).

2. A graph point P(-2, 3) moves -3 units horizontally and 0 vertically. State the original point if its shifted image is (-5, 3).

3. A graph point P(-1, 4) moves 2 units horizontally and 1 vertically. State the original point if its shifted image is (1, 5).

4. A graph point P(0, 2) moves -3 units horizontally and -1 vertically. State the original point if its shifted image is (-3, 1).

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

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

7. Diagnose an error. A graph point P(-3, 2) moves 2 units horizontally and -1 vertically. State the original point if its shifted image is (-1, 1). A learner answers “(2, -3)”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A graph point P(-2, 3) moves -3 units horizontally and 0 vertically. State the original point if its shifted image is (-5, 3).

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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