



The coordinate plane

GRADE 5 MATH

Name _____

Date _____

Count spaces from the origin. Plot, then read back. Give units on any real-world reading.

WORKED EXAMPLE

Two number lines crossing at (0, 0). First number along the x-axis, second along the y-axis. Count spaces, not lines. Zero is an instruction.

1. Plot and label: (2, 7), (7, 2), (4, 4), (0, 3), (3, 0).

APPLICATION

Show your thinking

Answer

2. Write the coordinates of a point 5 spaces right and 2 up from the origin.

FLUENCY

Show your thinking

Answer

3. Write the coordinates of a point 2 spaces right and 5 up from the origin.

FLUENCY

Show your thinking

Answer

4. Which of these points would be plotted in the same place if the two numbers were swapped: (3, 5), (6, 6), (0, 2), (9, 9)?

REASONING

Show your thinking

Answer

5. Explain why (0, 3) and (3, 0) are different points.

REASONING

Show your thinking

Answer

6. A graph shows hours across and miles up, with points at (1, 4), (3, 12) and (6, 24). Say what each means with units, and what they have in common.

APPLICATION

Show your thinking

Answer

7. On the same graph, what would (12, 3) mean? Is that a sensible journey?

REASONING

Show your thinking

Answer

8. A child counts grid lines out from the origin and plots (4, 6) at (3, 5). Test their method on the origin itself. What goes wrong?

REASONING

Show your thinking

Answer

9. Why is a mnemonic like “along the corridor, up the stairs” less reliable than reading the axis labels?

REASONING

Show your thinking

Answer

10. Why is (4, 4) a bad point to use when checking whether you have understood coordinates?

REASONING

Show your thinking

Answer