

# Coordinate Transformations

Grades 6-8 • Reflections, translations, and rotations on the coordinate plane

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Translate the point  $(8, 3)$  by moving 3 units right and 1 units up

Answer: \_\_\_\_\_

2. Translate the point  $(1, 7)$  by moving 3 units left and 2 units up

Answer: \_\_\_\_\_

3. Reflect the point  $(4, 7)$  across the  $y$ -axis

Answer: \_\_\_\_\_

4. Reflect the point  $(3, 7)$  across the  $x$ -axis

Answer: \_\_\_\_\_

5. Translate the point  $(1, 5)$  by moving 3 units left and 1 units up

Answer: \_\_\_\_\_

6. Reflect the point  $(2, 8)$  across the  $x$ -axis

Answer: \_\_\_\_\_

7. Reflect the point  $(5, 8)$  across the  $x$ -axis

Answer: \_\_\_\_\_

8. Translate the point  $(5, 6)$  by moving 2 units left and 3 units up

Answer: \_\_\_\_\_

9. Translate the point  $(5, 3)$  by moving 2 units left and 1 units up

Answer: \_\_\_\_\_

10. Translate the point  $(6, 2)$  by moving 3 units left and 2 units up

Answer: \_\_\_\_\_



## Answer Key

- |     |   |                |
|-----|---|----------------|
| 1.  | Translate the point (8, 3) by moving 3 units right and 1 units up | <b>(11, 4)</b> |
| 2.  | Translate the point (1, 7) by moving 3 units left and 2 units up  | <b>(-2, 9)</b> |
| 3.  | Reflect the point (4, 7) across the y-axis                        | <b>(-4, 7)</b> |
| 4.  | Reflect the point (3, 7) across the x-axis                        | <b>(3, -7)</b> |
| 5.  | Translate the point (1, 5) by moving 3 units left and 1 units up  | <b>(-2, 6)</b> |
| 6.  | Reflect the point (2, 8) across the x-axis                        | <b>(2, -8)</b> |
| 7.  | Reflect the point (5, 8) across the x-axis                        | <b>(5, -8)</b> |
| 8.  | Translate the point (5, 6) by moving 2 units left and 3 units up  | <b>(3, 9)</b>  |
| 9.  | Translate the point (5, 3) by moving 2 units left and 1 units up  | <b>(3, 4)</b>  |
| 10. | Translate the point (6, 2) by moving 3 units left and 2 units up  | <b>(3, 4)</b>  |