Name: _____ Date: _____

1. Which quadrant is the point $(1, 6)$ in?

Quadrant IV | Quadrant I | Quadrant III | Quadrant II

2. Which quadrant is $(-8, 3)$ in?

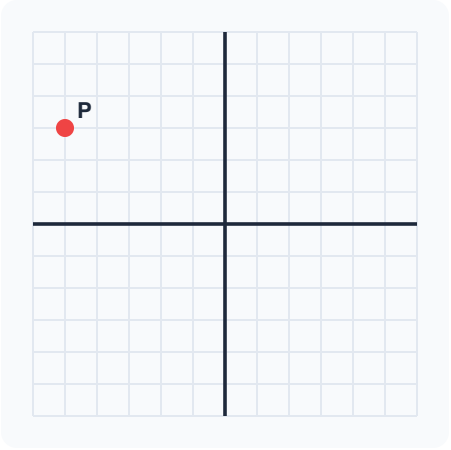
Quadrant I | Quadrant IV | Quadrant II | Quadrant III

3. Reflect $(8, 7)$ over the x-axis. What is the new point?

(-8, -7) | (8, -7) | (7, 8) | (-8, 7)

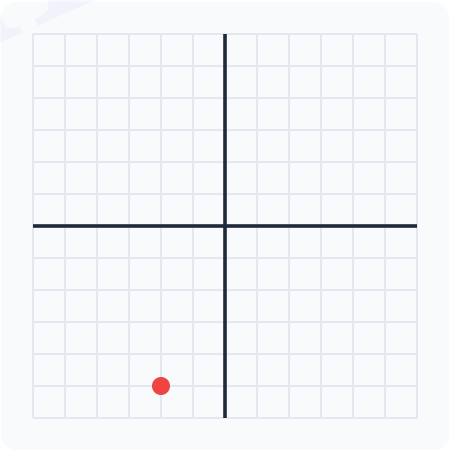
4. Points $(-2, 1)$ and $(7, 1)$ are on the same horizontal line. How far apart are they? ___

5. What are the coordinates of point P?



(-5, 3) (-5, -3) (3, -5) (5, 3)

6. In which quadrant is the plotted point?



Quadrant III Quadrant IV Quadrant I Quadrant II

7. Which quadrant is the point $(9, 7)$ in?

Quadrant III | Quadrant II | Quadrant I | Quadrant IV

8. Which quadrant is $(-3, -5)$ in?

Quadrant III | Quadrant IV | Quadrant II | Quadrant I

9. Reflect $(4, 5)$ over the x-axis. What is the new point?

(-4, 5) | (4, -5) | (-4, -5) | (5, 4)

10. Points $(1, 0)$ and $(-7, 0)$ are on the same horizontal line. How far apart are they? ___

11. Which quadrant is the point $(8, 2)$ in?

Quadrant III | Quadrant I | Quadrant IV | Quadrant II

12. Which quadrant is $(3, -7)$ in?

Quadrant II | Quadrant III | Quadrant I | Quadrant IV

13. Reflect $(5, 1)$ over the x-axis. What is the new point?

(1, 5) | (5, -1) | (-5, -1) | (-5, 1)

14. Points $(1, 3)$ and $(0, 3)$ are on the same horizontal line. How far apart are they? ___

15. Which quadrant is the point $(9, 4)$ in?

Quadrant III | Quadrant I | Quadrant IV | Quadrant II

16. Which quadrant is $(-6, -6)$ in?

Quadrant IV | Quadrant III | Quadrant I | Quadrant II

17. Reflect $(4, 4)$ over the x-axis. What is the new point?

18. Points $(3, 3)$ and $(-2, 3)$ are on the same horizontal line. How far apart are they? ___

Answer Key

1. **Quadrant I** Both coordinates positive → Quadrant I.

2. **Quadrant II** Negative x, positive y → Quadrant II.

3. **(8, -7)** Reflecting over the x-axis negates the y-coordinate: (8, -7).

4. **9** |7 – (-2)| = 9.

5. **(-5, 3)** P is at x = -5, y = 3: (-5, 3).

6. **Quadrant III** x = -2 (negative), y = -5 (negative) → Quadrant III.

7. **Quadrant I** Both coordinates positive → Quadrant I.

8. **Quadrant III** Both negative → Quadrant III.

9. **(4, -5)** Reflecting over the x-axis negates the y-coordinate: (4, -5).

10. **8** |-7 – (1)| = 8.

11. **Quadrant I** Both coordinates positive → Quadrant I.

12. **Quadrant IV** Positive x, negative y → Quadrant IV.

13. **(5, -1)** Reflecting over the x-axis negates the y-coordinate: (5, -1).

14. **1** |0 – (1)| = 1.

15. **Quadrant I** Both coordinates positive → Quadrant I.

16. **Quadrant III** Both negative → Quadrant III.

17. **(4, -4)** Reflecting over the x-axis negates the y-coordinate: (4, -4).

18. **5** |-2 – (3)| = 5.