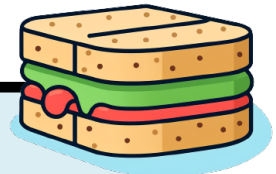Name: _____

The Midpoint Formula

Formula Reference

$$m = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Where **m** is the midpoint between points (x_1, y_1) and (x_2, y_2).

Directions: Find the coordinates of the midpoint of the line that connects the given points.

1. (5, -1) and (-3, 5)

2. (4, 8) and (2, -6)

3. (-6, -5) and (1, 0)

4. (6, -1) and (-1, 2)

5. (-2, 8) and (-2, -3)

6. (5, -2) and (4, -6)

7. (1, -9) and (-7, -5)

8. (-4, 4) and (2, -8)

9. (-7, 3) and (9, -1)

10. (-4, 8) and (2, 0)

11. (-8, 5) and (-3, 7)

12. (-3, -2) and (6, 4)

ANSWER KEY

1. (5, -1) and (-3, 5)
   (1, 2)

2. (4, 8) and (2, -6)
   (3, 1)

3. (-6, -5) and (1, 0)
   (-2.5, -2.5)

4. (6, -1) and (-1, 2)
   (2.5, 0.5)

5. (-2, 8) and (-2, -3)
   (-2, 2.5)

6. (5, -2) and (4, -6)
   (4.5, -4)

7. (1, -9) and (-7, -5)
   (-3, -7)

8. (-4, 4) and (2, -8)
   (-1, -2)

9. (-7, 3) and (9, -1)
   (1, 1)

10. (-4, 8) and (2, 0)
    (-1, 4)

11. (-8, 5) and (-3, 7)
    (-5.5, 6)

12. (-3, -2) and (6, 4)
    (1.5, 1)