



Find the midpoint of the set of coordinates.

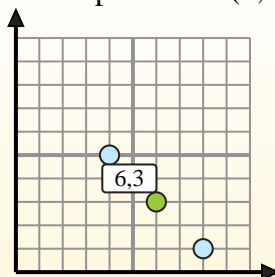
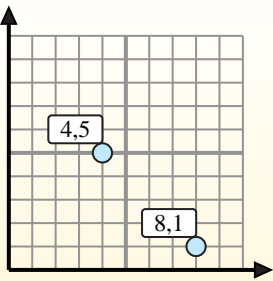
**Midpoint Formula**

$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



**Answers**

1) (0, 0) & (6, 3)

2) (3, 1) & (2, 3)

3) (7, 9) & (8, 5)

4) (5, 0) & (8, 8)

5) (5, 3) & (6, 10)

6) (5, 5) & (9, 4)

7) (4, 8) & (3, 10)

8) (6, 8) & (8, 9)

9) (4, 5) & (7, 10)

10) (5, 0) & (9, 8)

11) (9, 9) & (7, 10)

12) (5, 5) & (8, 7)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



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**Midpoint Formula**

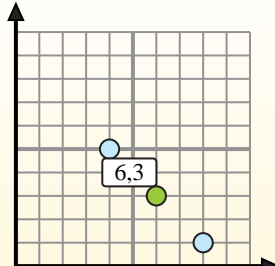
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$



The midpoint is at (6,3).



**Answers**

- 1)  $(0, 0) \& (6, 3) \left( \frac{0+6}{2}, \frac{0+3}{2} \right) = (3, 1.5)$
- 2)  $(3, 1) \& (2, 3) \left( \frac{3+2}{2}, \frac{1+3}{2} \right) = (2.5, 2)$
- 3)  $(7, 9) \& (8, 5) \left( \frac{7+8}{2}, \frac{9+5}{2} \right) = (7.5, 7)$
- 4)  $(5, 0) \& (8, 8) \left( \frac{5+8}{2}, \frac{0+8}{2} \right) = (6.5, 4)$
- 5)  $(5, 3) \& (6, 10) \left( \frac{5+6}{2}, \frac{3+10}{2} \right) = (5.5, 6.5)$
- 6)  $(5, 5) \& (9, 4) \left( \frac{5+9}{2}, \frac{5+4}{2} \right) = (7, 4.5)$
- 7)  $(4, 8) \& (3, 10) \left( \frac{4+3}{2}, \frac{8+10}{2} \right) = (3.5, 9)$
- 8)  $(6, 8) \& (8, 9) \left( \frac{6+8}{2}, \frac{8+9}{2} \right) = (7, 8.5)$
- 9)  $(4, 5) \& (7, 10) \left( \frac{4+7}{2}, \frac{5+10}{2} \right) = (5.5, 7.5)$
- 10)  $(5, 0) \& (9, 8) \left( \frac{5+9}{2}, \frac{0+8}{2} \right) = (7, 4)$
- 11)  $(9, 9) \& (7, 10) \left( \frac{9+7}{2}, \frac{9+10}{2} \right) = (8, 9.5)$
- 12)  $(5, 5) \& (8, 7) \left( \frac{5+8}{2}, \frac{5+7}{2} \right) = (6.5, 6)$

1. **(3, 1.5)**
2. **(2.5, 2)**
3. **(7.5, 7)**
4. **(6.5, 4)**
5. **(5.5, 6.5)**
6. **(7, 4.5)**
7. **(3.5, 9)**
8. **(7, 8.5)**
9. **(5.5, 7.5)**
10. **(7, 4)**
11. **(8, 9.5)**
12. **(6.5, 6)**