



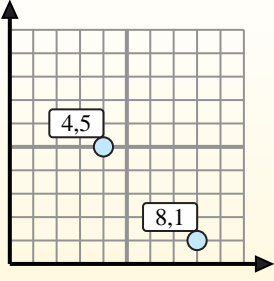
Find the midpoint of the set of coordinates.

**Midpoint Formula**

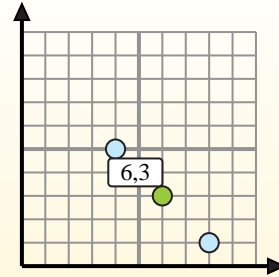
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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) (4, 10) & (4, 1)

2) (10, 6) & (5, 9)

3) (9, 10) & (7, 0)

4) (2, 1) & (4, 5)

5) (3, 9) & (9, 3)

6) (2, 3) & (4, 2)

7) (5, 0) & (8, 8)

8) (1, 9) & (2, 5)

9) (2, 4) & (5, 10)

10) (4, 1) & (2, 10)

11) (1, 4) & (6, 5)

12) (10, 10) & (1, 1)

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



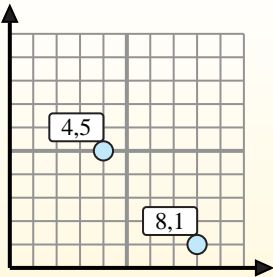
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$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$



The midpoint is at (6,3).



**Answers**

1)  $(4, 10) \& (4, 1) \left( \frac{4+4}{2}, \frac{10+1}{2} \right) = (4, 5.5)$

2)  $(10, 6) \& (5, 9) \left( \frac{10+5}{2}, \frac{6+9}{2} \right) = (7.5, 7.5)$

3)  $(9, 10) \& (7, 0) \left( \frac{9+7}{2}, \frac{10+0}{2} \right) = (8, 5)$

4)  $(2, 1) \& (4, 5) \left( \frac{2+4}{2}, \frac{1+5}{2} \right) = (3, 3)$

5)  $(3, 9) \& (9, 3) \left( \frac{3+9}{2}, \frac{9+3}{2} \right) = (6, 6)$

6)  $(2, 3) \& (4, 2) \left( \frac{2+4}{2}, \frac{3+2}{2} \right) = (3, 2.5)$

7)  $(5, 0) \& (8, 8) \left( \frac{5+8}{2}, \frac{0+8}{2} \right) = (6.5, 4)$

8)  $(1, 9) \& (2, 5) \left( \frac{1+2}{2}, \frac{9+5}{2} \right) = (1.5, 7)$

9)  $(2, 4) \& (5, 10) \left( \frac{2+5}{2}, \frac{4+10}{2} \right) = (3.5, 7)$

10)  $(4, 1) \& (2, 10) \left( \frac{4+2}{2}, \frac{1+10}{2} \right) = (3, 5.5)$

11)  $(1, 4) \& (6, 5) \left( \frac{1+6}{2}, \frac{4+5}{2} \right) = (3.5, 4.5)$

12)  $(10, 10) \& (1, 1) \left( \frac{10+1}{2}, \frac{10+1}{2} \right) = (5.5, 5.5)$

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