



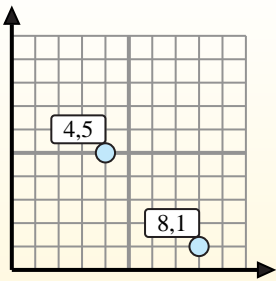
Find the midpoint of the set of coordinates.

**Midpoint Formula**

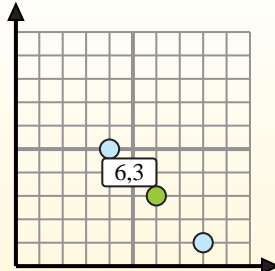
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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) (8, 6) & (3, 10)

2) (8, 7) & (8, 5)

3) (2, 5) & (2, 6)

4) (10, 7) & (3, 0)

5) (8, 10) & (7, 3)

6) (3, 7) & (10, 0)

7) (1, 6) & (10, 3)

8) (1, 1) & (1, 9)

9) (3, 4) & (7, 9)

10) (1, 0) & (2, 1)

11) (4, 8) & (10, 10)

12) (2, 2) & (3, 8)

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



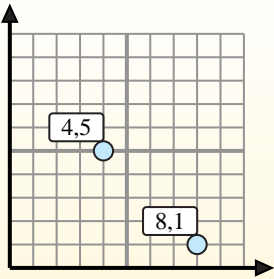
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The midpoint is at (6,3).



**Answers**

1)  $(8, 6) \& (3, 10) \left( \frac{8+3}{2}, \frac{6+10}{2} \right) = (5.5, 8)$

2)  $(8, 7) \& (8, 5) \left( \frac{8+8}{2}, \frac{7+5}{2} \right) = (8, 6)$

3)  $(2, 5) \& (2, 6) \left( \frac{2+2}{2}, \frac{5+6}{2} \right) = (2, 5.5)$

4)  $(10, 7) \& (3, 0) \left( \frac{10+3}{2}, \frac{7+0}{2} \right) = (6.5, 3.5)$

5)  $(8, 10) \& (7, 3) \left( \frac{8+7}{2}, \frac{10+3}{2} \right) = (7.5, 6.5)$

6)  $(3, 7) \& (10, 0) \left( \frac{3+10}{2}, \frac{7+0}{2} \right) = (6.5, 3.5)$

7)  $(1, 6) \& (10, 3) \left( \frac{1+10}{2}, \frac{6+3}{2} \right) = (5.5, 4.5)$

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

9)  $(3, 4) \& (7, 9) \left( \frac{3+7}{2}, \frac{4+9}{2} \right) = (5, 6.5)$

10)  $(1, 0) \& (2, 1) \left( \frac{1+2}{2}, \frac{0+1}{2} \right) = (1.5, 0.5)$

11)  $(4, 8) \& (10, 10) \left( \frac{4+10}{2}, \frac{8+10}{2} \right) = (7, 9)$

12)  $(2, 2) \& (3, 8) \left( \frac{2+3}{2}, \frac{2+8}{2} \right) = (2.5, 5)$

1. (5.5, 8)
2. (8, 6)
3. (2, 5.5)
4. (6.5, 3.5)
5. (7.5, 6.5)
6. (6.5, 3.5)
7. (5.5, 4.5)
8. (1, 5)
9. (5, 6.5)
10. (1.5, 0.5)
11. (7, 9)
12. (2.5, 5)