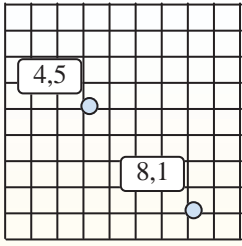




Find the midpoint of each set of coordinates.



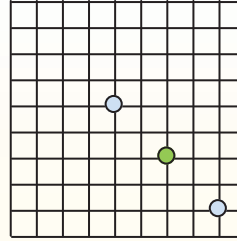
**Midpoint Formula**

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

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

$$\left( \frac{4 + 8}{2}, \frac{5 + 1}{2} \right)$$

The midpoint is at  
(6, 3)



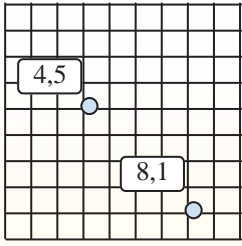
**Answers**

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

- 1) (2, 9) & (2, 5)
- 2) (6, 1) & (6, 6)
- 3) (6, 1) & (8, 7)
- 4) (8, 10) & (0, 0)
- 5) (8, 2) & (5, 3)
- 6) (1, 0) & (5, 7)
- 7) (6, 9) & (0, 9)
- 8) (5, 10) & (6, 2)
- 9) (8, 8) & (2, 3)
- 10) (6, 5) & (2, 4)
- 11) (10, 7) & (8, 3)
- 12) (1, 5) & (1, 1)



Find the midpoint of each set of coordinates.



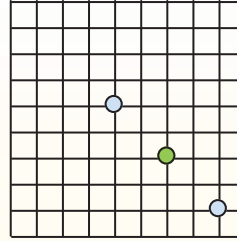
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The midpoint is at  
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**Answers**

1. (2, 7)

2. (6, 3.5)

3. (7, 4)

4. (4, 5)

5. (6.5, 2.5)

6. (3, 3.5)

7. (3, 9)

8. (5.5, 6)

9. (5, 5.5)

10. (4, 4.5)

11. (9, 5)

12. (1, 3)

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

2)  $(6, 1) \& (6, 6) \quad \left( \frac{6+6}{2}, \frac{1+6}{2} \right) = (6, 3.5)$

3)  $(6, 1) \& (8, 7) \quad \left( \frac{6+8}{2}, \frac{1+7}{2} \right) = (7, 4)$

4)  $(8, 10) \& (0, 0) \quad \left( \frac{8+0}{2}, \frac{10+0}{2} \right) = (4, 5)$

5)  $(8, 2) \& (5, 3) \quad \left( \frac{8+5}{2}, \frac{2+3}{2} \right) = (6.5, 2.5)$

6)  $(1, 0) \& (5, 7) \quad \left( \frac{1+5}{2}, \frac{0+7}{2} \right) = (3, 3.5)$

7)  $(6, 9) \& (0, 9) \quad \left( \frac{6+0}{2}, \frac{9+9}{2} \right) = (3, 9)$

8)  $(5, 10) \& (6, 2) \quad \left( \frac{5+6}{2}, \frac{10+2}{2} \right) = (5.5, 6)$

9)  $(8, 8) \& (2, 3) \quad \left( \frac{8+2}{2}, \frac{8+3}{2} \right) = (5, 5.5)$

10)  $(6, 5) \& (2, 4) \quad \left( \frac{6+2}{2}, \frac{5+4}{2} \right) = (4, 4.5)$

11)  $(10, 7) \& (8, 3) \quad \left( \frac{10+8}{2}, \frac{7+3}{2} \right) = (9, 5)$

12)  $(1, 5) \& (1, 1) \quad \left( \frac{1+1}{2}, \frac{5+1}{2} \right) = (1, 3)$