



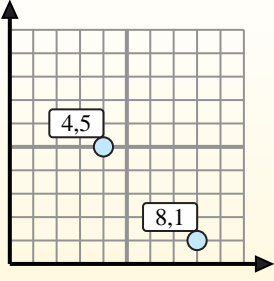
Find the midpoint of the set of coordinates.

**Midpoint Formula**

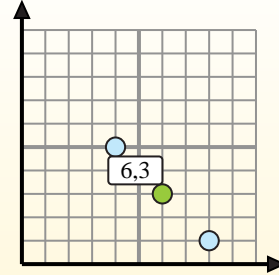
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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

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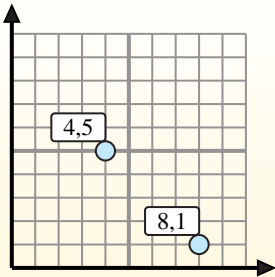
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**Midpoint Formula**

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

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

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