



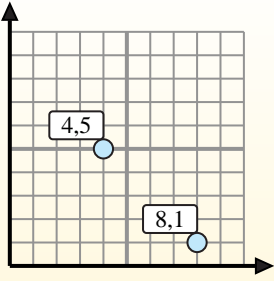
Find the midpoint of the set of coordinates.

**Midpoint Formula**

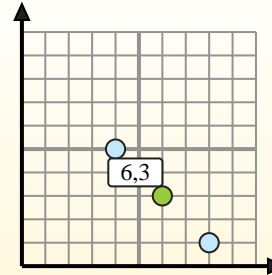
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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

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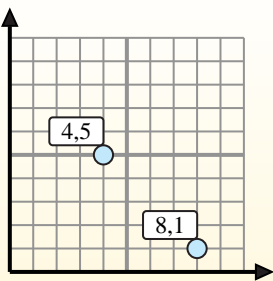
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The midpoint is at (6,3).



**Answers**

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

1. **(8, 4.5)**
2. **(3, 9)**
3. **(5.5, 7.5)**
4. **(7, 6)**
5. **(5, 0)**
6. **(4, 6)**
7. **(5.5, 6)**
8. **(8.5, 2.5)**
9. **(4, 2.5)**
10. **(3, 4)**
11. **(8, 2)**
12. **(5, 7)**