



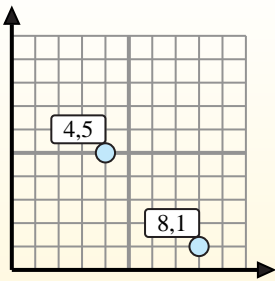
Find the midpoint of the set of coordinates.

**Midpoint Formula**

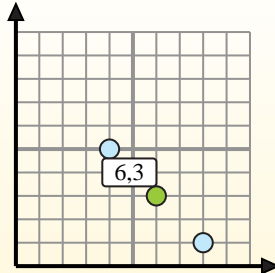
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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

1. \_\_\_\_\_
2. \_\_\_\_\_
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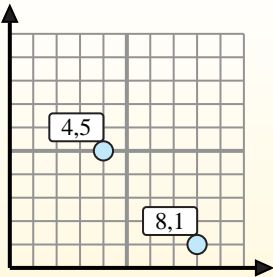
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**Midpoint Formula**

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

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



The midpoint is at (6,3).



**Answers**

- 1)  $(4, 6) \& (5, 4) \left( \frac{4+5}{2}, \frac{6+4}{2} \right) = (4.5, 5)$
- 2)  $(8, 4) \& (10, 10) \left( \frac{8+10}{2}, \frac{4+10}{2} \right) = (9, 7)$
- 3)  $(6, 10) \& (0, 0) \left( \frac{6+0}{2}, \frac{10+0}{2} \right) = (3, 5)$
- 4)  $(0, 6) \& (1, 10) \left( \frac{0+1}{2}, \frac{6+10}{2} \right) = (0.5, 8)$
- 5)  $(0, 5) \& (6, 2) \left( \frac{0+6}{2}, \frac{5+2}{2} \right) = (3, 3.5)$
- 6)  $(3, 5) \& (8, 1) \left( \frac{3+8}{2}, \frac{5+1}{2} \right) = (5.5, 3)$
- 7)  $(2, 1) \& (3, 7) \left( \frac{2+3}{2}, \frac{1+7}{2} \right) = (2.5, 4)$
- 8)  $(9, 4) \& (9, 4) \left( \frac{9+9}{2}, \frac{4+4}{2} \right) = (9, 4)$
- 9)  $(1, 1) \& (9, 10) \left( \frac{1+9}{2}, \frac{1+10}{2} \right) = (5, 5.5)$
- 10)  $(3, 3) \& (0, 6) \left( \frac{3+0}{2}, \frac{3+6}{2} \right) = (1.5, 4.5)$
- 11)  $(0, 0) \& (0, 0) \left( \frac{0+0}{2}, \frac{0+0}{2} \right) = (0, 0)$
- 12)  $(0, 8) \& (10, 7) \left( \frac{0+10}{2}, \frac{8+7}{2} \right) = (5, 7.5)$

1. (4.5, 5)
2. (9, 7)
3. (3, 5)
4. (0.5, 8)
5. (3, 3.5)
6. (5.5, 3)
7. (2.5, 4)
8. (9, 4)
9. (5, 5.5)
10. (1.5, 4.5)
11. (0, 0)
12. (5, 7.5)