



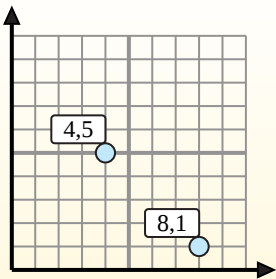
Find the midpoint of the set of coordinates.

Midpoint Formula

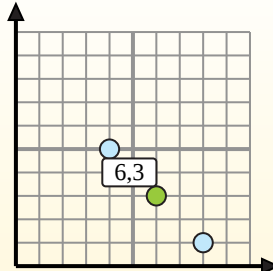
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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. _____



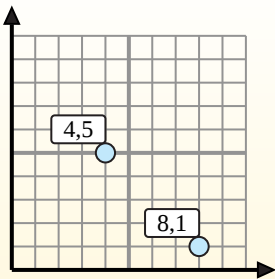
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Midpoint Formula

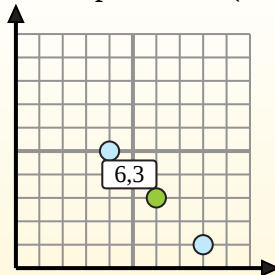
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The midpoint is at (6,3).



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)