



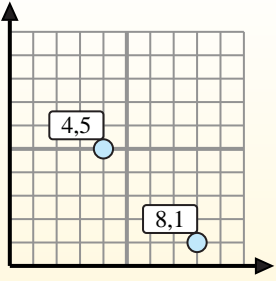
Find the midpoint of the set of coordinates.

Midpoint Formula

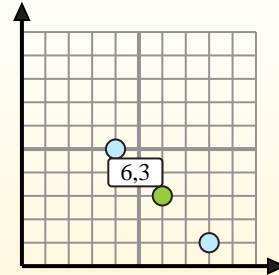
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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

1. _____
2. _____
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9. _____
10. _____
11. _____
12. _____



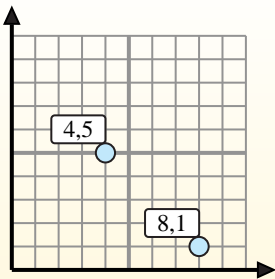
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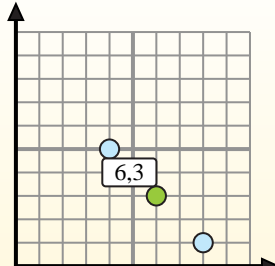
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The midpoint is at (6,3).



Answers

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

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