



Find the midpoint of the set of coordinates.

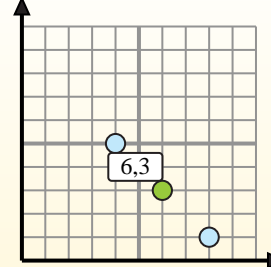
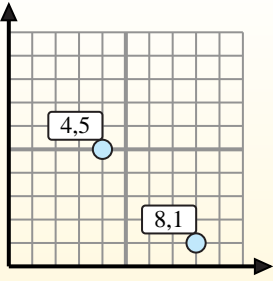
**Midpoint Formula**

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

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, 4) & (10, 10)

2) (1, 6) & (8, 7)

3) (10, 9) & (10, 9)

4) (7, 0) & (8, 0)

5) (7, 5) & (1, 9)

6) (9, 7) & (10, 6)

7) (5, 4) & (6, 10)

8) (10, 3) & (3, 8)

9) (2, 7) & (10, 8)

10) (7, 0) & (7, 5)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



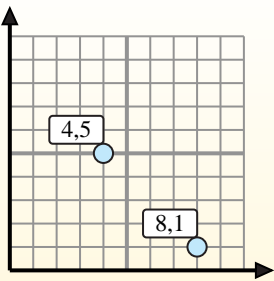
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**Midpoint Formula**

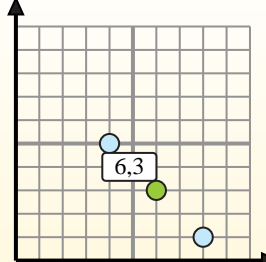
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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)  $(1, 4) \& (10, 10) \left( \frac{1+10}{2}, \frac{4+10}{2} \right) = (5.5, 7)$

2)  $(1, 6) \& (8, 7) \left( \frac{1+8}{2}, \frac{6+7}{2} \right) = (4.5, 6.5)$

3)  $(10, 9) \& (10, 9) \left( \frac{10+10}{2}, \frac{9+9}{2} \right) = (10, 9)$

4)  $(7, 0) \& (8, 0) \left( \frac{7+8}{2}, \frac{0+0}{2} \right) = (7.5, 0)$

5)  $(7, 5) \& (1, 9) \left( \frac{7+1}{2}, \frac{5+9}{2} \right) = (4, 7)$

6)  $(9, 7) \& (10, 6) \left( \frac{9+10}{2}, \frac{7+6}{2} \right) = (9.5, 6.5)$

7)  $(5, 4) \& (6, 10) \left( \frac{5+6}{2}, \frac{4+10}{2} \right) = (5.5, 7)$

8)  $(10, 3) \& (3, 8) \left( \frac{10+3}{2}, \frac{3+8}{2} \right) = (6.5, 5.5)$

9)  $(2, 7) \& (10, 8) \left( \frac{2+10}{2}, \frac{7+8}{2} \right) = (6, 7.5)$

10)  $(7, 0) \& (7, 5) \left( \frac{7+7}{2}, \frac{0+5}{2} \right) = (7, 2.5)$

1. **(5.5, 7)**

2. **(4.5, 6.5)**

3. **(10, 9)**

4. **(7.5, 0)**

5. **(4, 7)**

6. **(9.5, 6.5)**

7. **(5.5, 7)**

8. **(6.5, 5.5)**

9. **(6, 7.5)**

10. **(7, 2.5)**

11. **(1.5, 7)**

12. **(4.5, 3.5)**