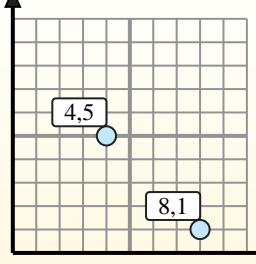




Finding Midpoint Based on Coordinates

Name: _____

Find the midpoint of the set of coordinates.



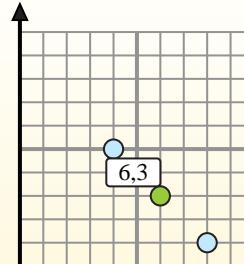
Midpoint Formula

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

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)

1. _____

2) (8, 7) & (8, 5)

2. _____

3) (2, 5) & (2, 6)

3. _____

4) (10, 7) & (3, 0)

4. _____

5) (8, 10) & (7, 3)

5. _____

6) (3, 7) & (10, 0)

6. _____

7) (1, 6) & (10, 3)

7. _____

8) (1, 1) & (1, 9)

8. _____

9) (3, 4) & (7, 9)

9. _____

10) (1, 0) & (2, 1)

10. _____

11) (4, 8) & (10, 10)

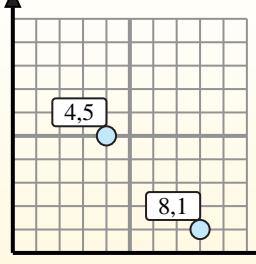
11. _____

12) (2, 2) & (3, 8)

12. _____



Find the midpoint of the set of coordinates.

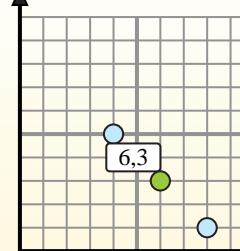
**Midpoint Formula**

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

To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

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The midpoint is at (6,3).

**Answers**

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)

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) $(2, 2) \& (3, 8)$ $\left(\frac{2+3}{2}, \frac{2+8}{2} \right) = (2.5, 5)$