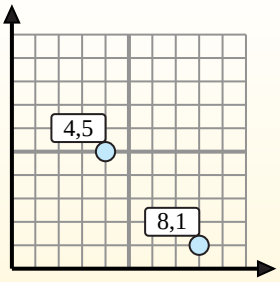
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of each set of coordinates.



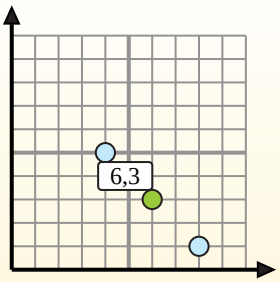
Midpoint Formula

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

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).



1) (9 , 10) & (1 , 10)

2) (3 , 10) & (1 , 0)

3) (4 , 8) & (10 , 9)

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

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

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

7) (0 , 10) & (8 , 9)

8) (5 , 5) & (5 , 8)

9) (10 , 3) & (10 , 2)

10) (3 , 5) & (7 , 2)

11) (10 , 5) & (3 , 4)

12) (8 , 3) & (3 , 10)

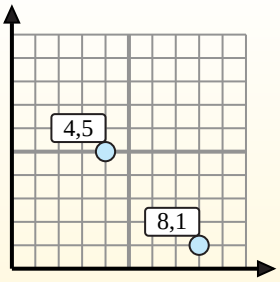
Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Finding Midpoint Based on Coordinates Name: **Answer Key**

Find the midpoint of each set of coordinates.



Midpoint Formula

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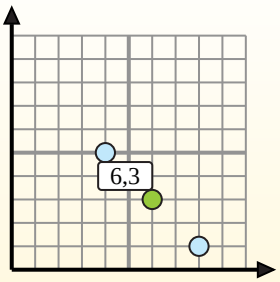
The midpoint is at (6,3).



1) (9 , 10) & (1 , 10) $\left(\frac{9 + 1}{2}, \frac{10 + 10}{2}\right)$ = (5 , 10)

2) (3 , 10) & (1 , 0) $\left(\frac{3 + 1}{2}, \frac{10 + 0}{2}\right)$ = (2 , 5)

3) (4 , 8) & (10 , 9) $\left(\frac{4 + 10}{2}, \frac{8 + 9}{2}\right)$ = (7 , 8.5)

4) (10 , 6) & (4 , 7) $\left(\frac{10 + 4}{2}, \frac{6 + 7}{2}\right)$ = (7 , 6.5)

5) (8 , 7) & (3 , 5) $\left(\frac{8 + 3}{2}, \frac{7 + 5}{2}\right)$ = (5.5 , 6)

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

7) (0 , 10) & (8 , 9) $\left(\frac{0 + 8}{2}, \frac{10 + 9}{2}\right)$ = (4 , 9.5)

8) (5 , 5) & (5 , 8) $\left(\frac{5 + 5}{2}, \frac{5 + 8}{2}\right)$ = (5 , 6.5)

9) (10 , 3) & (10 , 2) $\left(\frac{10 + 10}{2}, \frac{3 + 2}{2}\right)$ = (10 , 2.5)

10) (3 , 5) & (7 , 2) $\left(\frac{3 + 7}{2}, \frac{5 + 2}{2}\right)$ = (5 , 3.5)

11) (10 , 5) & (3 , 4) $\left(\frac{10 + 3}{2}, \frac{5 + 4}{2}\right)$ = (6.5 , 4.5)

12) (8 , 3) & (3 , 10) $\left(\frac{8 + 3}{2}, \frac{3 + 10}{2}\right)$ = (5.5 , 6.5)

Answers

1. **(5 , 10)**
2. **(2 , 5)**
3. **(7 , 8.5)**
4. **(7 , 6.5)**
5. **(5.5 , 6)**
6. **(5.5 , 7)**
7. **(4 , 9.5)**
8. **(5 , 6.5)**
9. **(10 , 2.5)**
10. **(5 , 3.5)**
11. **(6.5 , 4.5)**
12. **(5.5 , 6.5)**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								