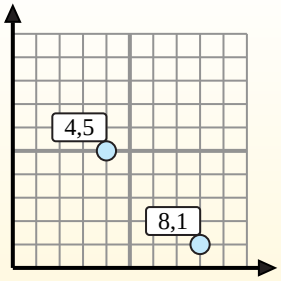
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of the set of coordinates.

Midpoint Formula

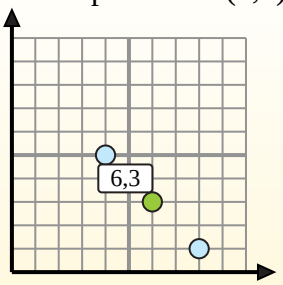
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$



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).



1) (6 , 2) & (0 , 0)

2) (1 , 9) & (6 , 5)

3) (2 , 0) & (2 , 5)

4) (8 , 5) & (5 , 4)

5) (3 , 8) & (3 , 2)

6) (3 , 10) & (9 , 4)

7) (0 , 2) & (7 , 1)

8) (7 , 2) & (8 , 0)

9) (8 , 9) & (2 , 6)

10) (0 , 2) & (2 , 4)

11) (5 , 8) & (5 , 7)

12) (7 , 7) & (6 , 0)

Answers

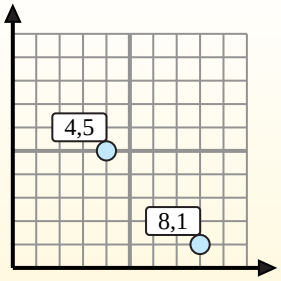
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

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 the set of coordinates.



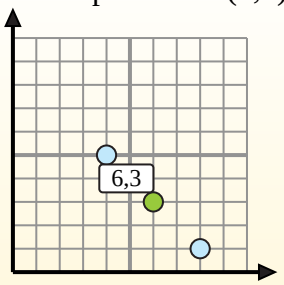
Midpoint Formula

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

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).



1) (6 , 2) & (0 , 0) $\left(\frac{6+0}{2}, \frac{2+0}{2}\right)$ = (3 , 1)

2) (1 , 9) & (6 , 5) $\left(\frac{1+6}{2}, \frac{9+5}{2}\right)$ = (3.5 , 7)

3) (2 , 0) & (2 , 5) $\left(\frac{2+2}{2}, \frac{0+5}{2}\right)$ = (2 , 2.5)

4) (8 , 5) & (5 , 4) $\left(\frac{8+5}{2}, \frac{5+4}{2}\right)$ = (6.5 , 4.5)

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

6) (3 , 10) & (9 , 4) $\left(\frac{3+9}{2}, \frac{10+4}{2}\right)$ = (6 , 7)

7) (0 , 2) & (7 , 1) $\left(\frac{0+7}{2}, \frac{2+1}{2}\right)$ = (3.5 , 1.5)

8) (7 , 2) & (8 , 0) $\left(\frac{7+8}{2}, \frac{2+0}{2}\right)$ = (7.5 , 1)

9) (8 , 9) & (2 , 6) $\left(\frac{8+2}{2}, \frac{9+6}{2}\right)$ = (5 , 7.5)

10) (0 , 2) & (2 , 4) $\left(\frac{0+2}{2}, \frac{2+4}{2}\right)$ = (1 , 3)

11) (5 , 8) & (5 , 7) $\left(\frac{5+5}{2}, \frac{8+7}{2}\right)$ = (5 , 7.5)

12) (7 , 7) & (6 , 0) $\left(\frac{7+6}{2}, \frac{7+0}{2}\right)$ = (6.5 , 3.5)

Answers

1. **(3 , 1)**
2. **(3.5 , 7)**
3. **(2 , 2.5)**
4. **(6.5 , 4.5)**
5. **(3 , 5)**
6. **(6 , 7)**
7. **(3.5 , 1.5)**
8. **(7.5 , 1)**
9. **(5 , 7.5)**
10. **(1 , 3)**
11. **(5 , 7.5)**
12. **(6.5 , 3.5)**

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