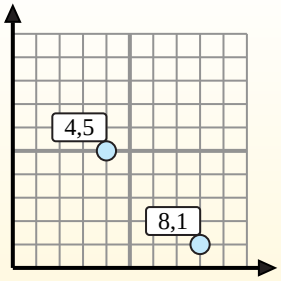
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of the set of coordinates.

Midpoint Formula

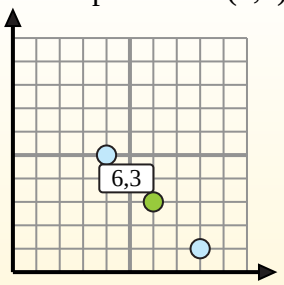
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$



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) (0 , 4) & (0 , 1)

2) (0 , 0) & (4 , 7)

3) (9 , 5) & (1 , 9)

4) (3 , 10) & (2 , 4)

5) (7 , 2) & (3 , 8)

6) (5 , 9) & (0 , 9)

7) (10 , 0) & (1 , 0)

8) (4 , 7) & (8 , 3)

9) (9 , 5) & (4 , 1)

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

11) (2 , 1) & (10 , 3)

12) (3 , 0) & (1 , 1)

Answers

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

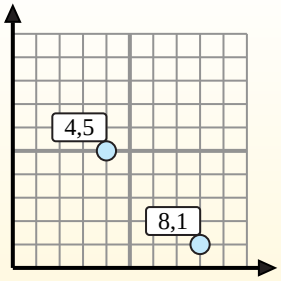
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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

Find the midpoint of the set of coordinates.

Midpoint Formula

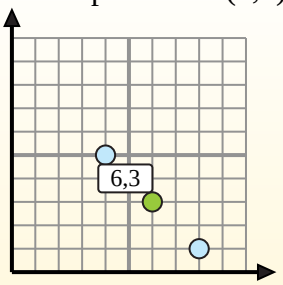
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$



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) (0 , 4) & (0 , 1) $\left(\frac{0+0}{2}, \frac{4+1}{2}\right)$ = (0 , 2.5)

2) (0 , 0) & (4 , 7) $\left(\frac{0+4}{2}, \frac{0+7}{2}\right)$ = (2 , 3.5)

3) (9 , 5) & (1 , 9) $\left(\frac{9+1}{2}, \frac{5+9}{2}\right)$ = (5 , 7)

4) (3 , 10) & (2 , 4) $\left(\frac{3+2}{2}, \frac{10+4}{2}\right)$ = (2.5 , 7)

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

6) (5 , 9) & (0 , 9) $\left(\frac{5+0}{2}, \frac{9+9}{2}\right)$ = (2.5 , 9)

7) (10 , 0) & (1 , 0) $\left(\frac{10+1}{2}, \frac{0+0}{2}\right)$ = (5.5 , 0)

8) (4 , 7) & (8 , 3) $\left(\frac{4+8}{2}, \frac{7+3}{2}\right)$ = (6 , 5)

9) (9 , 5) & (4 , 1) $\left(\frac{9+4}{2}, \frac{5+1}{2}\right)$ = (6.5 , 3)

10) (10 , 7) & (0 , 3) $\left(\frac{10+0}{2}, \frac{7+3}{2}\right)$ = (5 , 5)

11) (2 , 1) & (10 , 3) $\left(\frac{2+10}{2}, \frac{1+3}{2}\right)$ = (6 , 2)

12) (3 , 0) & (1 , 1) $\left(\frac{3+1}{2}, \frac{0+1}{2}\right)$ = (2 , 0.5)

Answers

1. (0 , 2.5)
2. (2 , 3.5)
3. (5 , 7)
4. (2.5 , 7)
5. (5 , 5)
6. (2.5 , 9)
7. (5.5 , 0)
8. (6 , 5)
9. (6.5 , 3)
10. (5 , 5)
11. (6 , 2)
12. (2 , 0.5)

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