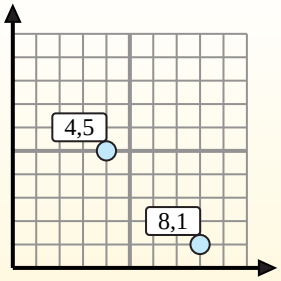
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of the set of coordinates.

Midpoint Formula

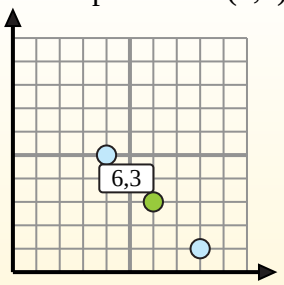


$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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) (5 , 7) & (4 , 5)

2) (2 , 10) & (2 , 10)

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

4) (10 , 2) & (4 , 7)

5) (5 , 3) & (7 , 0)

6) (3 , 8) & (0 , 0)

7) (1 , 9) & (3 , 7)

8) (8 , 10) & (6 , 4)

9) (5 , 3) & (8 , 8)

10) (4 , 6) & (2 , 1)

11) (9 , 9) & (8 , 9)

12) (0 , 6) & (6 , 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**

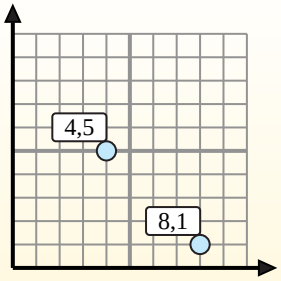
Find the midpoint of the set of coordinates.

Midpoint Formula

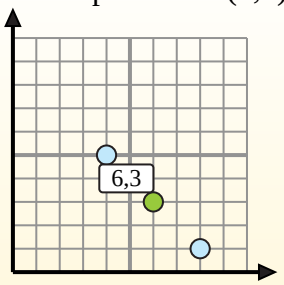
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

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) (5 , 7) & (4 , 5) $\left(\frac{5+4}{2}, \frac{7+5}{2}\right)$ = (4.5 , 6)

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

3) (1 , 7) & (6 , 6) $\left(\frac{1+6}{2}, \frac{7+6}{2}\right)$ = (3.5 , 6.5)

4) (10 , 2) & (4 , 7) $\left(\frac{10+4}{2}, \frac{2+7}{2}\right)$ = (7 , 4.5)

5) (5 , 3) & (7 , 0) $\left(\frac{5+7}{2}, \frac{3+0}{2}\right)$ = (6 , 1.5)

6) (3 , 8) & (0 , 0) $\left(\frac{3+0}{2}, \frac{8+0}{2}\right)$ = (1.5 , 4)

7) (1 , 9) & (3 , 7) $\left(\frac{1+3}{2}, \frac{9+7}{2}\right)$ = (2 , 8)

8) (8 , 10) & (6 , 4) $\left(\frac{8+6}{2}, \frac{10+4}{2}\right)$ = (7 , 7)

9) (5 , 3) & (8 , 8) $\left(\frac{5+8}{2}, \frac{3+8}{2}\right)$ = (6.5 , 5.5)

10) (4 , 6) & (2 , 1) $\left(\frac{4+2}{2}, \frac{6+1}{2}\right)$ = (3 , 3.5)

11) (9 , 9) & (8 , 9) $\left(\frac{9+8}{2}, \frac{9+9}{2}\right)$ = (8.5 , 9)

12) (0 , 6) & (6 , 10) $\left(\frac{0+6}{2}, \frac{6+10}{2}\right)$ = (3 , 8)

Answers

1. **(4.5 , 6)**
2. **(2 , 10)**
3. **(3.5 , 6.5)**
4. **(7 , 4.5)**
5. **(6 , 1.5)**
6. **(1.5 , 4)**
7. **(2 , 8)**
8. **(7 , 7)**
9. **(6.5 , 5.5)**
10. **(3 , 3.5)**
11. **(8.5 , 9)**
12. **(3 , 8)**

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