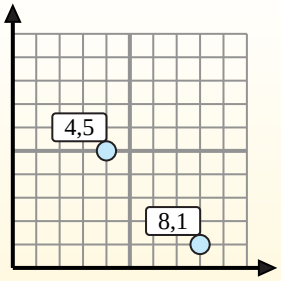
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of the set of coordinates.

Midpoint Formula

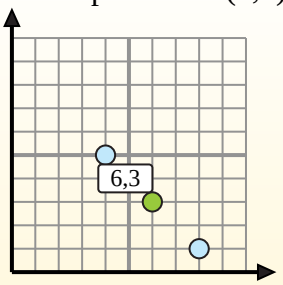
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$



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) (4 , 0) & (9 , 9)

2) (10 , 5) & (5 , 6)

3) (2 , 6) & (5 , 7)

4) (9 , 3) & (9 , 1)

5) (1 , 0) & (10 , 10)

6) (5 , 8) & (6 , 1)

7) (3 , 3) & (5 , 1)

8) (7 , 1) & (1 , 1)

9) (1 , 8) & (7 , 7)

10) (6 , 0) & (0 , 1)

11) (2 , 3) & (9 , 10)

12) (2 , 10) & (8 , 10)

Answers

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

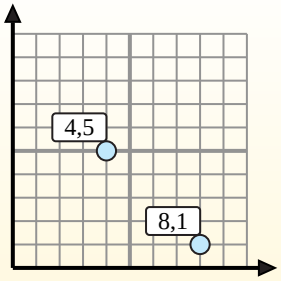
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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

Find the midpoint of the set of coordinates.

Midpoint Formula

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



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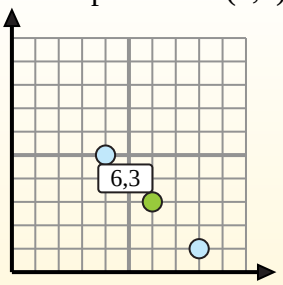

1) (4 , 0) & (9 , 9) $\left(\frac{4+9}{2}, \frac{0+9}{2}\right)$ = (6.5 , 4.5)

2) (10 , 5) & (5 , 6) $\left(\frac{10+5}{2}, \frac{5+6}{2}\right)$ = (7.5 , 5.5)

3) (2 , 6) & (5 , 7) $\left(\frac{2+5}{2}, \frac{6+7}{2}\right)$ = (3.5 , 6.5)

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

5) (1 , 0) & (10 , 10) $\left(\frac{1+10}{2}, \frac{0+10}{2}\right)$ = (5.5 , 5)

6) (5 , 8) & (6 , 1) $\left(\frac{5+6}{2}, \frac{8+1}{2}\right)$ = (5.5 , 4.5)

7) (3 , 3) & (5 , 1) $\left(\frac{3+5}{2}, \frac{3+1}{2}\right)$ = (4 , 2)

8) (7 , 1) & (1 , 1) $\left(\frac{7+1}{2}, \frac{1+1}{2}\right)$ = (4 , 1)

9) (1 , 8) & (7 , 7) $\left(\frac{1+7}{2}, \frac{8+7}{2}\right)$ = (4 , 7.5)

10) (6 , 0) & (0 , 1) $\left(\frac{6+0}{2}, \frac{0+1}{2}\right)$ = (3 , 0.5)

11) (2 , 3) & (9 , 10) $\left(\frac{2+9}{2}, \frac{3+10}{2}\right)$ = (5.5 , 6.5)

12) (2 , 10) & (8 , 10) $\left(\frac{2+8}{2}, \frac{10+10}{2}\right)$ = (5 , 10)

Answers

1. **(6.5 , 4.5)**
2. **(7.5 , 5.5)**
3. **(3.5 , 6.5)**
4. **(9 , 2)**
5. **(5.5 , 5)**
6. **(5.5 , 4.5)**
7. **(4 , 2)**
8. **(4 , 1)**
9. **(4 , 7.5)**
10. **(3 , 0.5)**
11. **(5.5 , 6.5)**
12. **(5 , 10)**

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