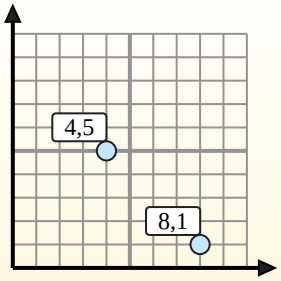
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of the set of coordinates.

Midpoint Formula

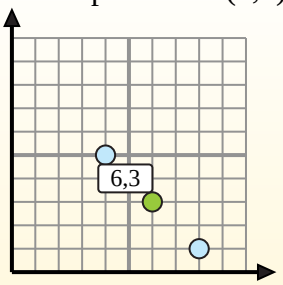
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$



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 , 6) & (5 , 4)

2) (8 , 4) & (10 , 10)

3) (6 , 10) & (0 , 0)

4) (0 , 6) & (1 , 10)

5) (0 , 5) & (6 , 2)

6) (3 , 5) & (8 , 1)

7) (2 , 1) & (3 , 7)

8) (9 , 4) & (9 , 4)

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

10) (3 , 3) & (0 , 6)

11) (0 , 0) & (0 , 0)

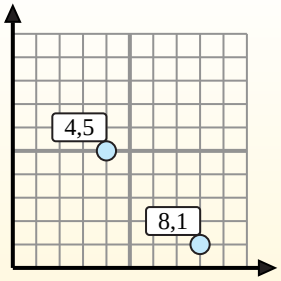
12) (0 , 8) & (10 , 7)

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								

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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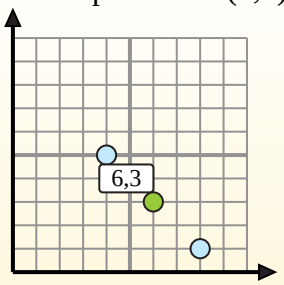

1) (4 , 6) & (5 , 4) $\left(\frac{4+5}{2}, \frac{6+4}{2}\right)$ = (4.5 , 5)

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

3) (6 , 10) & (0 , 0) $\left(\frac{6+0}{2}, \frac{10+0}{2}\right)$ = (3 , 5)

4) (0 , 6) & (1 , 10) $\left(\frac{0+1}{2}, \frac{6+10}{2}\right)$ = (0.5 , 8)

5) (0 , 5) & (6 , 2) $\left(\frac{0+6}{2}, \frac{5+2}{2}\right)$ = (3 , 3.5)

6) (3 , 5) & (8 , 1) $\left(\frac{3+8}{2}, \frac{5+1}{2}\right)$ = (5.5 , 3)

7) (2 , 1) & (3 , 7) $\left(\frac{2+3}{2}, \frac{1+7}{2}\right)$ = (2.5 , 4)

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

9) (1 , 1) & (9 , 10) $\left(\frac{1+9}{2}, \frac{1+10}{2}\right)$ = (5 , 5.5)

10) (3 , 3) & (0 , 6) $\left(\frac{3+0}{2}, \frac{3+6}{2}\right)$ = (1.5 , 4.5)

11) (0 , 0) & (0 , 0) $\left(\frac{0+0}{2}, \frac{0+0}{2}\right)$ = (0 , 0)

12) (0 , 8) & (10 , 7) $\left(\frac{0+10}{2}, \frac{8+7}{2}\right)$ = (5 , 7.5)

Answers

1. (4.5 , 5)
2. (9 , 7)
3. (3 , 5)
4. (0.5 , 8)
5. (3 , 3.5)
6. (5.5 , 3)
7. (2.5 , 4)
8. (9 , 4)
9. (5 , 5.5)
10. (1.5 , 4.5)
11. (0 , 0)
12. (5 , 7.5)

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