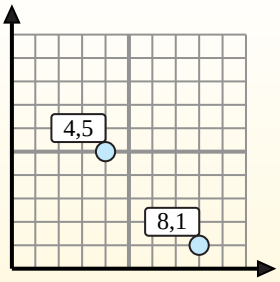
Finding Midpoint Based on Coordinates

Name:

Find the midpoint of each set of coordinates.



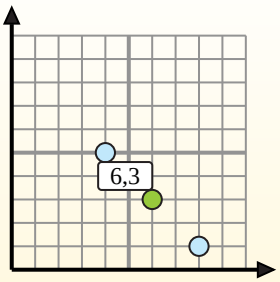
Midpoint Formula

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

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 , 0) & (5 , 0)

2) (4 , 6) & (2 , 5)

3) (8 , 10) & (9 , 6)

4) (2 , 0) & (9 , 9)

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

6) (7 , 9) & (0 , 10)

7) (1 , 3) & (8 , 7)

8) (4 , 2) & (0 , 9)

9) (9 , 3) & (3 , 10)

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

11) (4 , 10) & (9 , 6)

12) (10 , 4) & (4 , 4)

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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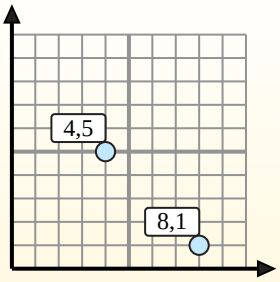

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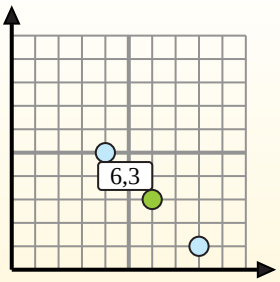

1) (0 , 0) & (5 , 0) $\left(\frac{0+5}{2}, \frac{0+0}{2}\right)$ = (2.5 , 0)

2) (4 , 6) & (2 , 5) $\left(\frac{4+2}{2}, \frac{6+5}{2}\right)$ = (3 , 5.5)

3) (8 , 10) & (9 , 6) $\left(\frac{8+9}{2}, \frac{10+6}{2}\right)$ = (8.5 , 8)

4) (2 , 0) & (9 , 9) $\left(\frac{2+9}{2}, \frac{0+9}{2}\right)$ = (5.5 , 4.5)

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

6) (7 , 9) & (0 , 10) $\left(\frac{7+0}{2}, \frac{9+10}{2}\right)$ = (3.5 , 9.5)

7) (1 , 3) & (8 , 7) $\left(\frac{1+8}{2}, \frac{3+7}{2}\right)$ = (4.5 , 5)

8) (4 , 2) & (0 , 9) $\left(\frac{4+0}{2}, \frac{2+9}{2}\right)$ = (2 , 5.5)

9) (9 , 3) & (3 , 10) $\left(\frac{9+3}{2}, \frac{3+10}{2}\right)$ = (6 , 6.5)

10) (3 , 0) & (3 , 7) $\left(\frac{3+3}{2}, \frac{0+7}{2}\right)$ = (3 , 3.5)

11) (4 , 10) & (9 , 6) $\left(\frac{4+9}{2}, \frac{10+6}{2}\right)$ = (6.5 , 8)

12) (10 , 4) & (4 , 4) $\left(\frac{10+4}{2}, \frac{4+4}{2}\right)$ = (7 , 4)

Answers

1. **(2.5 , 0)**
2. **(3 , 5.5)**
3. **(8.5 , 8)**
4. **(5.5 , 4.5)**
5. **(2 , 1)**
6. **(3.5 , 9.5)**
7. **(4.5 , 5)**
8. **(2 , 5.5)**
9. **(6 , 6.5)**
10. **(3 , 3.5)**
11. **(6.5 , 8)**
12. **(7 , 4)**

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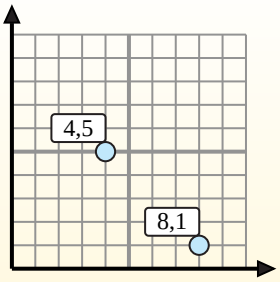
Find the midpoint of each set of coordinates.



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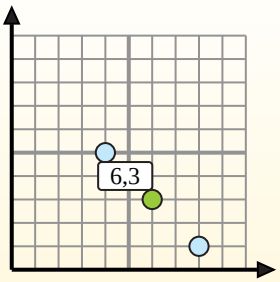

1) (0 , 1) & (6 , 9)

2) (6 , 10) & (3 , 10)

3) (7 , 8) & (10 , 8)

4) (0 , 6) & (9 , 7)

5) (6 , 1) & (2 , 8)

6) (0 , 7) & (8 , 5)

7) (5 , 8) & (4 , 9)

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

9) (1 , 7) & (0 , 3)

10) (1 , 2) & (2 , 7)

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Answers

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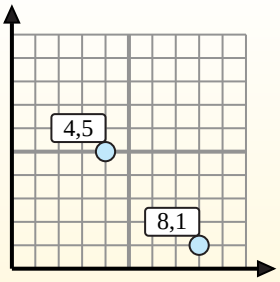

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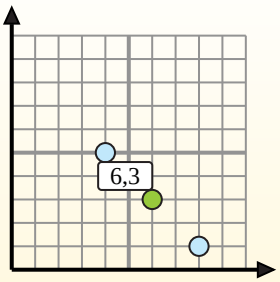

1) (0 , 1) & (6 , 9) $\left(\frac{0+6}{2}, \frac{1+9}{2}\right)$ = (3 , 5)

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

3) (7 , 8) & (10 , 8) $\left(\frac{7+10}{2}, \frac{8+8}{2}\right)$ = (8.5 , 8)

4) (0 , 6) & (9 , 7) $\left(\frac{0+9}{2}, \frac{6+7}{2}\right)$ = (4.5 , 6.5)

5) (6 , 1) & (2 , 8) $\left(\frac{6+2}{2}, \frac{1+8}{2}\right)$ = (4 , 4.5)

6) (0 , 7) & (8 , 5) $\left(\frac{0+8}{2}, \frac{7+5}{2}\right)$ = (4 , 6)

7) (5 , 8) & (4 , 9) $\left(\frac{5+4}{2}, \frac{8+9}{2}\right)$ = (4.5 , 8.5)

8) (7 , 8) & (10 , 0) $\left(\frac{7+10}{2}, \frac{8+0}{2}\right)$ = (8.5 , 4)

9) (1 , 7) & (0 , 3) $\left(\frac{1+0}{2}, \frac{7+3}{2}\right)$ = (0.5 , 5)

10) (1 , 2) & (2 , 7) $\left(\frac{1+2}{2}, \frac{2+7}{2}\right)$ = (1.5 , 4.5)

11) (8 , 10) & (7 , 7) $\left(\frac{8+7}{2}, \frac{10+7}{2}\right)$ = (7.5 , 8.5)

12) (0 , 4) & (9 , 5) $\left(\frac{0+9}{2}, \frac{4+5}{2}\right)$ = (4.5 , 4.5)

Answers

1. (3 , 5)
2. (4.5 , 10)
3. (8.5 , 8)
4. (4.5 , 6.5)
5. (4 , 4.5)
6. (4 , 6)
7. (4.5 , 8.5)
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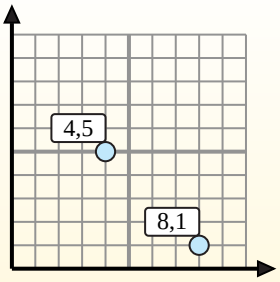

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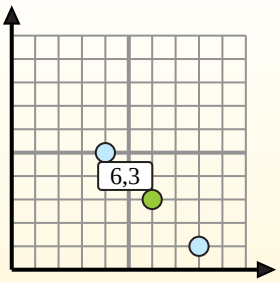

1) (9 , 9) & (9 , 1)

2) (0 , 1) & (4 , 8)

3) (10 , 8) & (0 , 5)

4) (4 , 9) & (4 , 10)

5) (7 , 9) & (6 , 4)

6) (8 , 2) & (9 , 1)

7) (6 , 8) & (0 , 0)

8) (1 , 8) & (6 , 4)

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

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

11) (2 , 5) & (0 , 9)

12) (10 , 9) & (8 , 6)

Answers

1. _____
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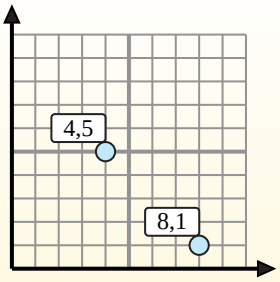

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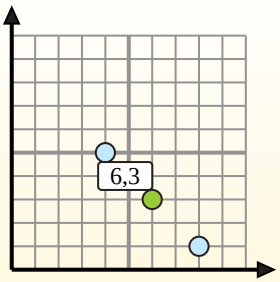

1) (9 , 9) & (9 , 1) $\left(\frac{9+9}{2}, \frac{9+1}{2}\right)$ = (9 , 5)

2) (0 , 1) & (4 , 8) $\left(\frac{0+4}{2}, \frac{1+8}{2}\right)$ = (2 , 4.5)

3) (10 , 8) & (0 , 5) $\left(\frac{10+0}{2}, \frac{8+5}{2}\right)$ = (5 , 6.5)

4) (4 , 9) & (4 , 10) $\left(\frac{4+4}{2}, \frac{9+10}{2}\right)$ = (4 , 9.5)

5) (7 , 9) & (6 , 4) $\left(\frac{7+6}{2}, \frac{9+4}{2}\right)$ = (6.5 , 6.5)

6) (8 , 2) & (9 , 1) $\left(\frac{8+9}{2}, \frac{2+1}{2}\right)$ = (8.5 , 1.5)

7) (6 , 8) & (0 , 0) $\left(\frac{6+0}{2}, \frac{8+0}{2}\right)$ = (3 , 4)

8) (1 , 8) & (6 , 4) $\left(\frac{1+6}{2}, \frac{8+4}{2}\right)$ = (3.5 , 6)

9) (3 , 5) & (9 , 8) $\left(\frac{3+9}{2}, \frac{5+8}{2}\right)$ = (6 , 6.5)

10) (3 , 1) & (2 , 10) $\left(\frac{3+2}{2}, \frac{1+10}{2}\right)$ = (2.5 , 5.5)

11) (2 , 5) & (0 , 9) $\left(\frac{2+0}{2}, \frac{5+9}{2}\right)$ = (1 , 7)

12) (10 , 9) & (8 , 6) $\left(\frac{10+8}{2}, \frac{9+6}{2}\right)$ = (9 , 7.5)

Answers

1. (9 , 5)
2. (2 , 4.5)
3. (5 , 6.5)
4. (4 , 9.5)
5. (6.5 , 6.5)
6. (8.5 , 1.5)
7. (3 , 4)
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11. (1 , 7)
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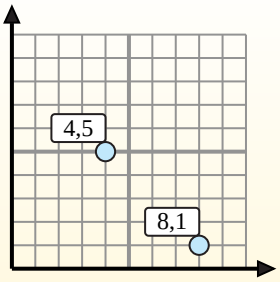

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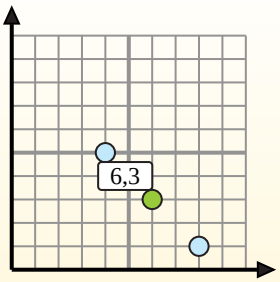

1) (3 , 10) & (8 , 8)

2) (1 , 0) & (6 , 5)

3) (1 , 5) & (2 , 8)

4) (10 , 4) & (0 , 7)

5) (6 , 10) & (10 , 1)

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

7) (0 , 7) & (9 , 6)

8) (7 , 2) & (1 , 10)

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

10) (6 , 8) & (6 , 3)

11) (0 , 6) & (3 , 3)

12) (9 , 10) & (10 , 9)

Answers

1. _____
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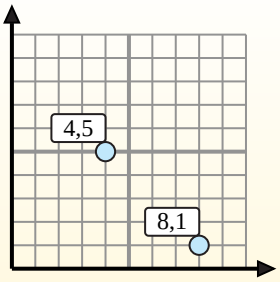

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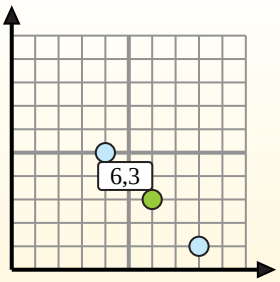

1) (3 , 10) & (8 , 8) $\left(\frac{3 + 8}{2}, \frac{10 + 8}{2}\right)$ = (5.5 , 9)

2) (1 , 0) & (6 , 5) $\left(\frac{1 + 6}{2}, \frac{0 + 5}{2}\right)$ = (3.5 , 2.5)

3) (1 , 5) & (2 , 8) $\left(\frac{1 + 2}{2}, \frac{5 + 8}{2}\right)$ = (1.5 , 6.5)

4) (10 , 4) & (0 , 7) $\left(\frac{10 + 0}{2}, \frac{4 + 7}{2}\right)$ = (5 , 5.5)

5) (6 , 10) & (10 , 1) $\left(\frac{6 + 10}{2}, \frac{10 + 1}{2}\right)$ = (8 , 5.5)

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

7) (0 , 7) & (9 , 6) $\left(\frac{0 + 9}{2}, \frac{7 + 6}{2}\right)$ = (4.5 , 6.5)

8) (7 , 2) & (1 , 10) $\left(\frac{7 + 1}{2}, \frac{2 + 10}{2}\right)$ = (4 , 6)

9) (6 , 8) & (8 , 6) $\left(\frac{6 + 8}{2}, \frac{8 + 6}{2}\right)$ = (7 , 7)

10) (6 , 8) & (6 , 3) $\left(\frac{6 + 6}{2}, \frac{8 + 3}{2}\right)$ = (6 , 5.5)

11) (0 , 6) & (3 , 3) $\left(\frac{0 + 3}{2}, \frac{6 + 3}{2}\right)$ = (1.5 , 4.5)

12) (9 , 10) & (10 , 9) $\left(\frac{9 + 10}{2}, \frac{10 + 9}{2}\right)$ = (9.5 , 9.5)

Answers

1. (5.5 , 9)
2. (3.5 , 2.5)
3. (1.5 , 6.5)
4. (5 , 5.5)
5. (8 , 5.5)
6. (2 , 5)
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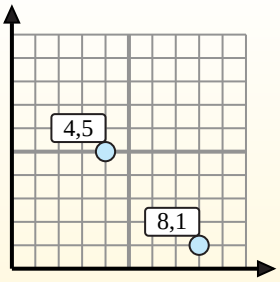

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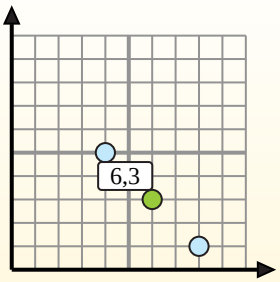

1) (8 , 6) & (7 , 9)

2) (7 , 2) & (9 , 0)

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

4) (4 , 0) & (9 , 8)

5) (9 , 6) & (8 , 5)

6) (6 , 7) & (10 , 10)

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

8) (10 , 8) & (8 , 10)

9) (0 , 10) & (1 , 10)

10) (7 , 2) & (9 , 7)

11) (6 , 5) & (9 , 1)

12) (5 , 6) & (9 , 10)

Answers

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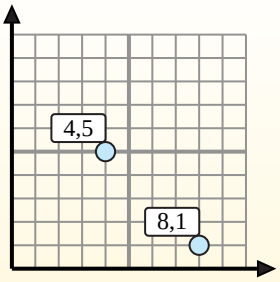

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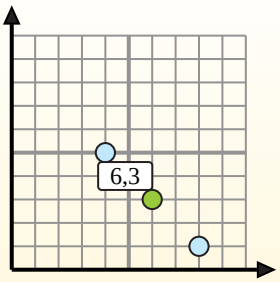


1) (8 , 6) & (7 , 9) $\left(\frac{8+7}{2}, \frac{6+9}{2}\right)$ = (7.5 , 7.5)

2) (7 , 2) & (9 , 0) $\left(\frac{7+9}{2}, \frac{2+0}{2}\right)$ = (8 , 1)

3) (8 , 1) & (5 , 3) $\left(\frac{8+5}{2}, \frac{1+3}{2}\right)$ = (6.5 , 2)

4) (4 , 0) & (9 , 8) $\left(\frac{4+9}{2}, \frac{0+8}{2}\right)$ = (6.5 , 4)

5) (9 , 6) & (8 , 5) $\left(\frac{9+8}{2}, \frac{6+5}{2}\right)$ = (8.5 , 5.5)

6) (6 , 7) & (10 , 10) $\left(\frac{6+10}{2}, \frac{7+10}{2}\right)$ = (8 , 8.5)

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

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

9) (0 , 10) & (1 , 10) $\left(\frac{0+1}{2}, \frac{10+10}{2}\right)$ = (0.5 , 10)

10) (7 , 2) & (9 , 7) $\left(\frac{7+9}{2}, \frac{2+7}{2}\right)$ = (8 , 4.5)

11) (6 , 5) & (9 , 1) $\left(\frac{6+9}{2}, \frac{5+1}{2}\right)$ = (7.5 , 3)

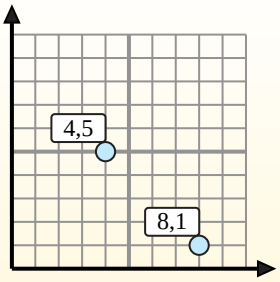
12) (5 , 6) & (9 , 10) $\left(\frac{5+9}{2}, \frac{6+10}{2}\right)$ = (7 , 8)

Answers

1. (7.5 , 7.5)
2. (8 , 1)
3. (6.5 , 2)
4. (6.5 , 4)
5. (8.5 , 5.5)
6. (8 , 8.5)
7. (4 , 7.5)
8. (9 , 9)
9. (0.5 , 10)
10. (8 , 4.5)
11. (7.5 , 3)
12. (7 , 8)

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

Find the midpoint of each set of coordinates.



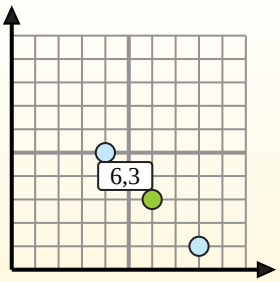
Midpoint Formula

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

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

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

3) (3 , 7) & (0 , 1)

4) (10 , 3) & (5 , 0)

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

6) (6 , 7) & (0 , 9)

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

8) (6 , 5) & (10 , 0)

9) (5 , 4) & (2 , 4)

10) (2 , 9) & (0 , 6)

11) (2 , 9) & (10 , 0)

12) (5 , 4) & (2 , 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								

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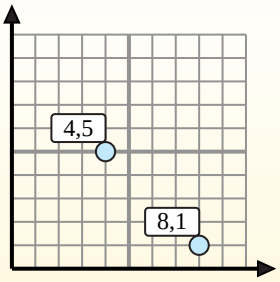

Midpoint Formula

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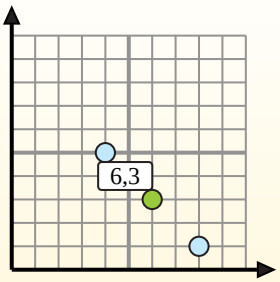
The midpoint is at (6,3).



1) (2 , 6) & (2 , 9) $\left(\frac{2+2}{2}, \frac{6+9}{2}\right)$ = (2 , 7.5)

2) (10 , 6) & (6 , 5) $\left(\frac{10+6}{2}, \frac{6+5}{2}\right)$ = (8 , 5.5)

3) (3 , 7) & (0 , 1) $\left(\frac{3+0}{2}, \frac{7+1}{2}\right)$ = (1.5 , 4)

4) (10 , 3) & (5 , 0) $\left(\frac{10+5}{2}, \frac{3+0}{2}\right)$ = (7.5 , 1.5)

5) (2 , 5) & (6 , 2) $\left(\frac{2+6}{2}, \frac{5+2}{2}\right)$ = (4 , 3.5)

6) (6 , 7) & (0 , 9) $\left(\frac{6+0}{2}, \frac{7+9}{2}\right)$ = (3 , 8)

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

8) (6 , 5) & (10 , 0) $\left(\frac{6+10}{2}, \frac{5+0}{2}\right)$ = (8 , 2.5)

9) (5 , 4) & (2 , 4) $\left(\frac{5+2}{2}, \frac{4+4}{2}\right)$ = (3.5 , 4)

10) (2 , 9) & (0 , 6) $\left(\frac{2+0}{2}, \frac{9+6}{2}\right)$ = (1 , 7.5)

11) (2 , 9) & (10 , 0) $\left(\frac{2+10}{2}, \frac{9+0}{2}\right)$ = (6 , 4.5)

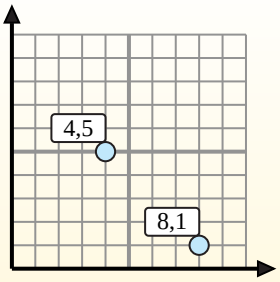
12) (5 , 4) & (2 , 10) $\left(\frac{5+2}{2}, \frac{4+10}{2}\right)$ = (3.5 , 7)

Answers

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

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

Find the midpoint of each set of coordinates.



Midpoint Formula

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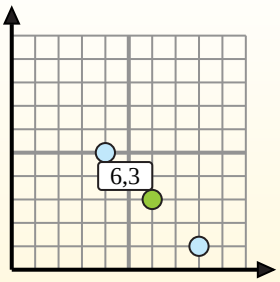
To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



1) (7 , 2) & (9 , 1)

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

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

4) (5 , 7) & (1 , 4)

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

6) (10 , 1) & (1 , 5)

7) (3 , 5) & (6 , 9)

8) (0 , 2) & (0 , 6)

9) (1 , 7) & (8 , 2)

10) (1 , 6) & (9 , 5)

11) (4 , 4) & (1 , 10)

12) (9 , 2) & (7 , 2)

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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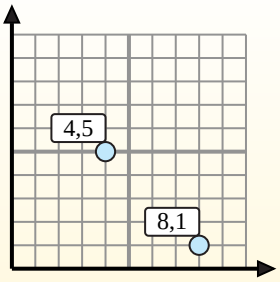
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Find the midpoint of each set of coordinates.



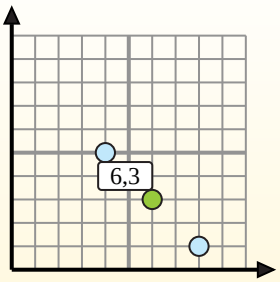
Midpoint Formula

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

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) (7 , 2) & (9 , 1) $\left(\frac{7+9}{2}, \frac{2+1}{2}\right)$ = (8 , 1.5)

2) (7 , 2) & (0 , 8) $\left(\frac{7+0}{2}, \frac{2+8}{2}\right)$ = (3.5 , 5)

3) (6 , 6) & (3 , 10) $\left(\frac{6+3}{2}, \frac{6+10}{2}\right)$ = (4.5 , 8)

4) (5 , 7) & (1 , 4) $\left(\frac{5+1}{2}, \frac{7+4}{2}\right)$ = (3 , 5.5)

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

6) (10 , 1) & (1 , 5) $\left(\frac{10+1}{2}, \frac{1+5}{2}\right)$ = (5.5 , 3)

7) (3 , 5) & (6 , 9) $\left(\frac{3+6}{2}, \frac{5+9}{2}\right)$ = (4.5 , 7)

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

9) (1 , 7) & (8 , 2) $\left(\frac{1+8}{2}, \frac{7+2}{2}\right)$ = (4.5 , 4.5)

10) (1 , 6) & (9 , 5) $\left(\frac{1+9}{2}, \frac{6+5}{2}\right)$ = (5 , 5.5)

11) (4 , 4) & (1 , 10) $\left(\frac{4+1}{2}, \frac{4+10}{2}\right)$ = (2.5 , 7)

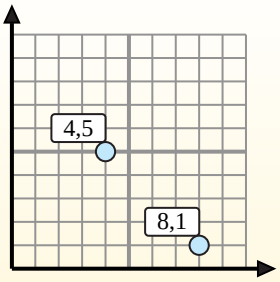
12) (9 , 2) & (7 , 2) $\left(\frac{9+7}{2}, \frac{2+2}{2}\right)$ = (8 , 2)

Answers

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

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

Find the midpoint of each set of coordinates.



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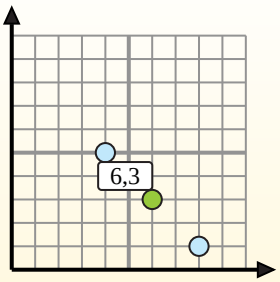
To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



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

2) (8 , 1) & (3 , 9)

3) (4 , 5) & (4 , 7)

4) (4 , 10) & (5 , 5)

5) (4 , 10) & (7 , 4)

6) (0 , 9) & (10 , 0)

7) (4 , 7) & (7 , 9)

8) (10 , 6) & (9 , 10)

9) (8 , 0) & (5 , 2)

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

11) (4 , 9) & (2 , 9)

12) (1 , 6) & (0 , 7)

Answers

1. _____
2. _____
3. _____
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5. _____
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11-12	8	0								

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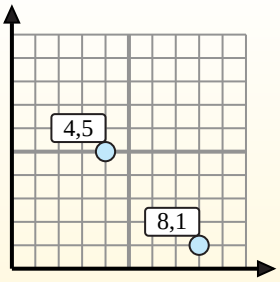

Midpoint Formula

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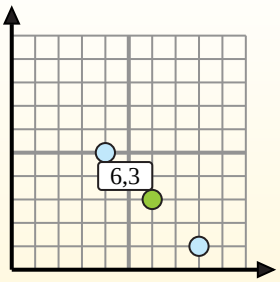
The midpoint is at (6,3).



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

2) (8 , 1) & (3 , 9) $\left(\frac{8+3}{2}, \frac{1+9}{2}\right)$ = (5.5 , 5)

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

4) (4 , 10) & (5 , 5) $\left(\frac{4+5}{2}, \frac{10+5}{2}\right)$ = (4.5 , 7.5)

5) (4 , 10) & (7 , 4) $\left(\frac{4+7}{2}, \frac{10+4}{2}\right)$ = (5.5 , 7)

6) (0 , 9) & (10 , 0) $\left(\frac{0+10}{2}, \frac{9+0}{2}\right)$ = (5 , 4.5)

7) (4 , 7) & (7 , 9) $\left(\frac{4+7}{2}, \frac{7+9}{2}\right)$ = (5.5 , 8)

8) (10 , 6) & (9 , 10) $\left(\frac{10+9}{2}, \frac{6+10}{2}\right)$ = (9.5 , 8)

9) (8 , 0) & (5 , 2) $\left(\frac{8+5}{2}, \frac{0+2}{2}\right)$ = (6.5 , 1)

10) (1 , 6) & (6 , 10) $\left(\frac{1+6}{2}, \frac{6+10}{2}\right)$ = (3.5 , 8)

11) (4 , 9) & (2 , 9) $\left(\frac{4+2}{2}, \frac{9+9}{2}\right)$ = (3 , 9)

12) (1 , 6) & (0 , 7) $\left(\frac{1+0}{2}, \frac{6+7}{2}\right)$ = (0.5 , 6.5)

Answers

1. **(1 , 8)**
2. **(5.5 , 5)**
3. **(4 , 6)**
4. **(4.5 , 7.5)**
5. **(5.5 , 7)**
6. **(5 , 4.5)**
7. **(5.5 , 8)**
8. **(9.5 , 8)**
9. **(6.5 , 1)**
10. **(3.5 , 8)**
11. **(3 , 9)**
12. **(0.5 , 6.5)**

1-10	92	83	75	67	58	50	42	33	25	17
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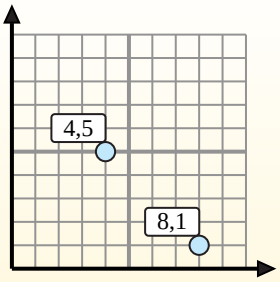

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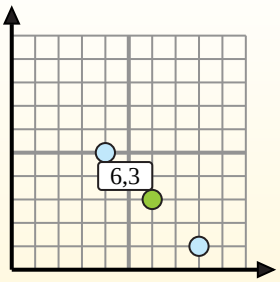
To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



1) (9 , 7) & (6 , 7)

2) (1 , 8) & (3 , 4)

3) (8 , 9) & (2 , 3)

4) (7 , 8) & (3 , 2)

5) (7 , 6) & (6 , 1)

6) (3 , 5) & (1 , 4)

7) (4 , 7) & (6 , 2)

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

9) (7 , 5) & (10 , 10)

10) (8 , 9) & (10 , 4)

11) (1 , 1) & (3 , 8)

12) (3 , 5) & (5 , 9)

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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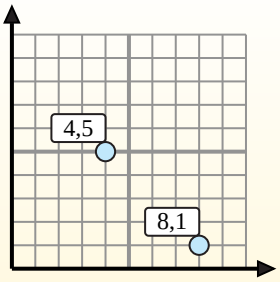

Midpoint Formula

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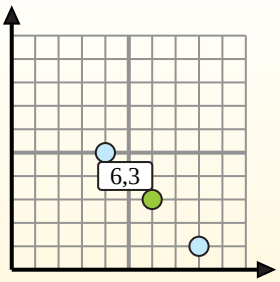
To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



1) (9 , 7) & (6 , 7) $\left(\frac{9+6}{2}, \frac{7+7}{2}\right)$ = (7.5 , 7)

2) (1 , 8) & (3 , 4) $\left(\frac{1+3}{2}, \frac{8+4}{2}\right)$ = (2 , 6)

3) (8 , 9) & (2 , 3) $\left(\frac{8+2}{2}, \frac{9+3}{2}\right)$ = (5 , 6)

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

5) (7 , 6) & (6 , 1) $\left(\frac{7+6}{2}, \frac{6+1}{2}\right)$ = (6.5 , 3.5)

6) (3 , 5) & (1 , 4) $\left(\frac{3+1}{2}, \frac{5+4}{2}\right)$ = (2 , 4.5)

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

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

9) (7 , 5) & (10 , 10) $\left(\frac{7+10}{2}, \frac{5+10}{2}\right)$ = (8.5 , 7.5)

10) (8 , 9) & (10 , 4) $\left(\frac{8+10}{2}, \frac{9+4}{2}\right)$ = (9 , 6.5)

11) (1 , 1) & (3 , 8) $\left(\frac{1+3}{2}, \frac{1+8}{2}\right)$ = (2 , 4.5)

12) (3 , 5) & (5 , 9) $\left(\frac{3+5}{2}, \frac{5+9}{2}\right)$ = (4 , 7)

Answers

1. (7.5 , 7)
2. (2 , 6)
3. (5 , 6)
4. (5 , 5)
5. (6.5 , 3.5)
6. (2 , 4.5)
7. (5 , 4.5)
8. (6.5 , 5)
9. (8.5 , 7.5)
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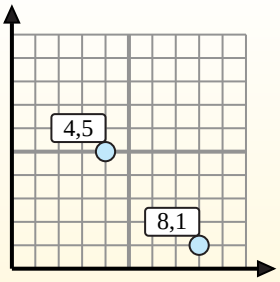
12. (4 , 7)

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

Finding Midpoint Based on Coordinates Name:

Find the midpoint of each set of coordinates.



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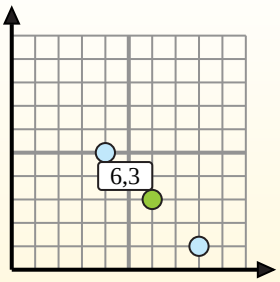
To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\frac{4 + 8}{2}, \frac{5 + 1}{2}$$

The midpoint is at (6,3).



1) (0 , 9) & (5 , 2)

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

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

4) (7 , 7) & (6 , 5)

5) (6 , 10) & (8 , 0)

6) (4 , 7) & (0 , 0)

7) (9 , 4) & (10 , 1)

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

9) (7 , 5) & (2 , 4)

10) (10 , 6) & (3 , 5)

11) (7 , 1) & (7 , 0)

12) (8 , 6) & (8 , 4)

Answers

1. _____
2. _____
3. _____
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6. _____
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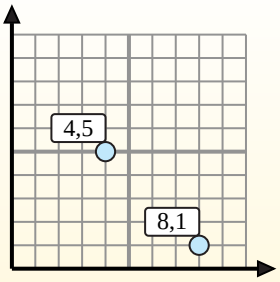
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Find the midpoint of each set of coordinates.



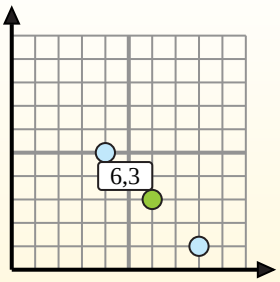
Midpoint Formula

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

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 , 9) & (5 , 2) $\left(\frac{0+5}{2}, \frac{9+2}{2}\right)$ = (2.5 , 5.5)

2) (3 , 0) & (5 , 3) $\left(\frac{3+5}{2}, \frac{0+3}{2}\right)$ = (4 , 1.5)

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

4) (7 , 7) & (6 , 5) $\left(\frac{7+6}{2}, \frac{7+5}{2}\right)$ = (6.5 , 6)

5) (6 , 10) & (8 , 0) $\left(\frac{6+8}{2}, \frac{10+0}{2}\right)$ = (7 , 5)

6) (4 , 7) & (0 , 0) $\left(\frac{4+0}{2}, \frac{7+0}{2}\right)$ = (2 , 3.5)

7) (9 , 4) & (10 , 1) $\left(\frac{9+10}{2}, \frac{4+1}{2}\right)$ = (9.5 , 2.5)

8) (8 , 7) & (3 , 2) $\left(\frac{8+3}{2}, \frac{7+2}{2}\right)$ = (5.5 , 4.5)

9) (7 , 5) & (2 , 4) $\left(\frac{7+2}{2}, \frac{5+4}{2}\right)$ = (4.5 , 4.5)

10) (10 , 6) & (3 , 5) $\left(\frac{10+3}{2}, \frac{6+5}{2}\right)$ = (6.5 , 5.5)

11) (7 , 1) & (7 , 0) $\left(\frac{7+7}{2}, \frac{1+0}{2}\right)$ = (7 , 0.5)

12) (8 , 6) & (8 , 4) $\left(\frac{8+8}{2}, \frac{6+4}{2}\right)$ = (8 , 5)

Answers

1. **(2.5 , 5.5)**
2. **(4 , 1.5)**
3. **(6 , 7)**
4. **(6.5 , 6)**
5. **(7 , 5)**
6. **(2 , 3.5)**
7. **(9.5 , 2.5)**
8. **(5.5 , 4.5)**
9. **(4.5 , 4.5)**
10. **(6.5 , 5.5)**
11. **(7 , 0.5)**
12. **(8 , 5)**

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