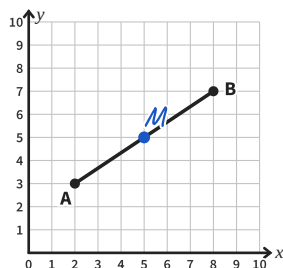


Midpoint of a Line Segment

ANSWERS

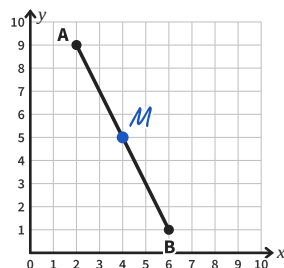
1 Halfway along. Halfway up.

Find the midpoint of AB.



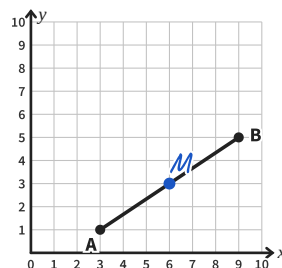
	A	B	Midpoint
x	2	8	5
y	3	7	5

2 Find the midpoint of AB.



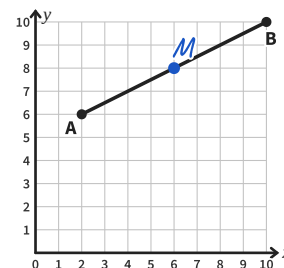
	A	B	Midpoint
x	2	6	4
y	9	1	5

3 Find the midpoint of AB.



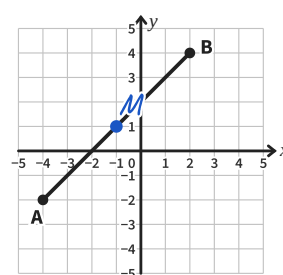
	A	B	Midpoint
x	3	9	6
y	1	5	3

4 Find the midpoint of AB.



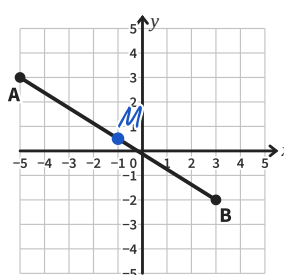
	A	B	Midpoint
x	2	10	6
y	6	10	8

5 Find the midpoint of AB.



Midpoint (,)

6 Find the midpoint of AB.



Midpoint (,)

7 The midpoint of AB is (3, 4). A is (1, 1). Find the coordinates of B.

2 across and 3 up, again
Answer (5, 7)

8 A is (-2, 6) and B is (4, -2). Find the midpoint of AB.

$(-2 + 4) \div 2$ and $(6 + -2) \div 2$
Answer (1, 2)

Midpoint of a Line Segment further practice

ANSWERS

9

A is (-3, 7) and B is (5, 1). Find the midpoint of AB.

$$(-3 + 5) \div 2 \text{ and } (7 + 1) \div 2$$

Midpoint (,)

10

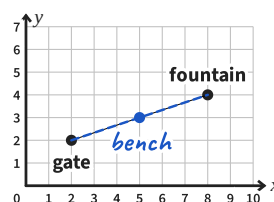
A is (1, 2) and B is (6, 9). Find the midpoint of AB.

$$(1 + 6) \div 2 \text{ and } (2 + 9) \div 2$$

Midpoint (,)

11

On this park map, a bench is halfway between the gate and the fountain. Find the coordinates of the bench.



Bench (,)

12

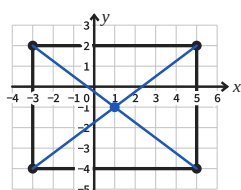
M (2, -1) is the midpoint of AB. A is (-2, 3). Find the coordinates of B.

A to M: 4 right, 4 down. Do it again.

B (,)

13

The diagonals of this rectangle cross at its centre. Find the coordinates of the centre.



Centre (,)

14

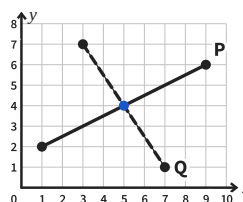
A is (-4, 2) and B is (8, 10). M is the midpoint of AB. N is the midpoint of AM. Find the coordinates of N.

M is (2, 6)

N (,)

15

Path P goes from (1, 2) to (9, 6). Path Q goes from (3, 7) to (7, 1). Show that the paths cross at the midpoint of both.



both midpoints are (5, 4)

Answer Yes, at (5, 4)

16

Pia works out the midpoint of (-4, 6) and (2, -2). She writes $(6 \div 2, 8 \div 2) = (3, 4)$. Explain Pia's mistake and find the right midpoint.

she halved the gaps; add the coordinates, then halve

Answer (-1, 2)