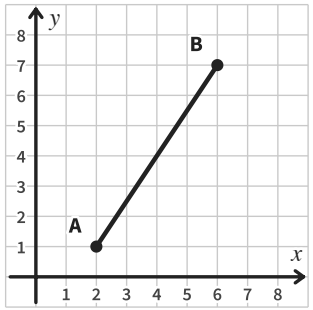
The midpoint of a line segment

1

Find the midpoint of **AB**.

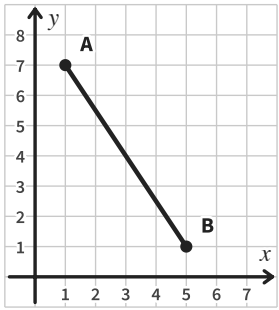


	A	*B*	Midpoint
x	2	6	4
y	1	7	

Midpoint _____

2

Find the midpoint of **AB**.

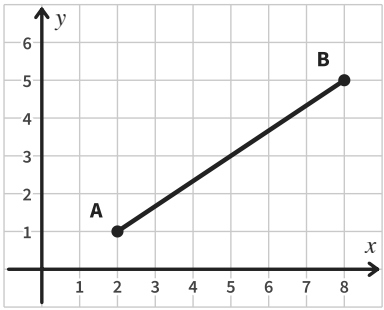


	A	*B*	Midpoint
x	1	5	
y	7	1	

Midpoint _____

3

Find the midpoint of **AB**.

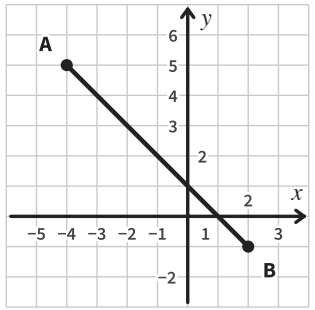


	A	*B*	Midpoint
x			
y			

Midpoint _____

4 *Notice the change!*

Find the midpoint of **AB**.



	A	*B*	Midpoint
x			
y			

Midpoint _____

5

A is (3, 5) and **B** is (8, 1).

Find the midpoint of **AB**.

	A	*B*	Midpoint
x			
y			

x: _____

y: _____

Midpoint _____

6

P is (−6, −2) and **Q** is (4, 8).

Find the midpoint of **PQ**.

	P	*Q*	Midpoint
x			
y			

x: _____

y: _____

Midpoint _____

7

Ellie says the midpoint of (2, 5) and (10, 9) is (4, 2). Explain her mistake and find the midpoint.

_____

_____

Midpoint _____

8

M (5, 4) is the midpoint of **AB**. **A** is (2, 1).

Find the coordinates of **B**.

	A	*M*	*B*
x	2	5	
y	1	4	

A to M: _____

B _____

The midpoint of a line segment *further practice*

9

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

Midpoint _____

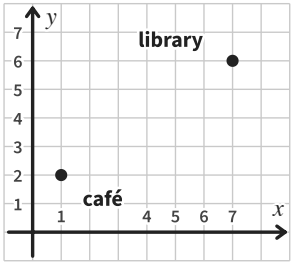
10

C is (−2, 3) and D is (3, −4).
Find the midpoint of CD.

Midpoint _____

11

On this map, a bus stop is halfway between the café and the library.
Find the coordinates of the bus stop.



Bus stop _____

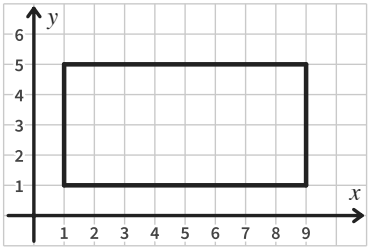
12

M (−1, 2) is the midpoint of AB.
A is (3, 5). Find the coordinates of B.

B _____

13

A rectangle has corners (1, 1), (9, 1), (9, 5) and (1, 5). Its diagonals cross at its centre. Find the centre.



Centre _____

14

A is (0, 0) and B is (8, 4). M is the midpoint of AB. N is the midpoint of AM. Find the coordinates of N.

N _____

15

M (4, 5) is the midpoint of AB. A is on the y axis and B is on the x axis.
Find A and B.

A and B _____

16

Sara says (3, 4) is halfway between (1, 1) and (5, 6). Is she right?
Explain how you know.

Answer _____