## **1-4 Midpoints**

Name:	Time>	Start:	_ Finish:	Total Time =
1.	What is the midpoint of a line	e that has end	dpoints at (2, 3)	) and (8, 5)?
2.	What is the midpoint of a line	e that has end	dpoints at (2, 3)	) and (4, 1)?
3.	What is the midpoint of a line	e that has end	dpoints at (14,	-3) and (10, -1)?
4.	What is the midpoint of a line	e that has end	dpoints at (16, 2	3) and (8, -1)?
5.	What is the midpoint of a line	e that has end	dpoints at (5, -1	0) and (6, -10)?
6.	What is the midpoint of a line	e that has end	dpoints at (0, 3)	) and (-4, -3)?
7.	Point A is at (3, 7) and B is at $\overline{AC}$ , what are the coordinates	t (7, 1). If B s of C?	is the midpoin	t of
8.	If X is the midpoint of $\overline{CN}$ are	nd $CX = 8n$ -	+ 10, what is C	N? (Expression answer)
9.	If B is the midpoint of $\overline{AC}$ and	AC = 4n -	- 2, what is AB	? (Expression answer)
10.	Point A is at (2, 12) and B is a of $\overline{AC}$ , what are the coordinates of $\overline{AC}$ .	at (8, 10). If ates of C?	f B is the midpo	bint
11.	If X is the midpoint of $\overline{CN}$ a	nd $CX = 4n$	– 6, what is CN	V? (Expression answer)
12.	If B is the midpoint of $\overline{AC}$ as	nd AC = $6n$	+ 20, what is A	B? (Expression answer)
13.	A line segment has an endpoi is (6, -2), what are the coordin line segment? (2008 SOL que	nt at (3, 2). nates of the pestion)	If the midpoint point at the oth	t of the line segment er end of the
14.	Point A is at (-4, 8) and B is a of $\overline{AC}$ , what are the coordinates the coordinates of $\overline{AC}$ and $\overline{AC}$ , whet are the coordinates of $\overline{AC}$ and $\overline{AC}$ are the coordinates of $\overline{AC}$ .	at (-2, 12). I ates of C?	f B is the midp	oint
15.	Point X is at (2, 12) and D is of $\overline{XP}$ , what are the coordinates of $\overline{XP}$ .	at (8, 10). If ttes of P?	f D is the midp	oint
16.	Point A is at (6, 1) and T is at of $\overline{AT}$ , what are the coordinates the coordinates of $\overline{AT}$ .	(8, 10). If 2 tes of X?	X is the midpoi	nt
17.	Point A is at (2, 12) and B is a of $\overline{AB}$ , what are the coordinates the coordinates of $\overline{AB}$ and $\overline{AB}$ .	at (18, 10). 1 ites of C?	If C is the mid	point

Consider the pictures below. If a point is in the first quadrant, it will always be A. If in the  $2^{nd}$ , it will be B. If in the  $3^{rd}$ , it will be C. If in the  $4^{th}$ , it will be D. It would be wise to label the points before you start.



## Find the midpoint of each given line segment.

18.	$\overline{AB}$ in Figure 1	19.	$\overline{AB}$ in Figure 2
20.	$\overline{AD}$ in Figure 1	21.	$\overline{AC}$ in Figure 2
22.	$\overline{BD}$ in Figure 1	23.	$\overline{BC}$ in Figure 2