

					٠
Δ	n	Δ	h	ra	
$\sim$	и	H	I)	171	

Getting Ready for Geometry

Practice -	Midpoint	Formula
------------	----------	---------

Name \_

Determine the coordinates of the midpoint of the segment with the given endpoints.

4. 
$$(a, b)$$
 and  $(-1, 5)$ 

$$M = \left(\frac{a + (-1)}{2}, b + 5\right)$$

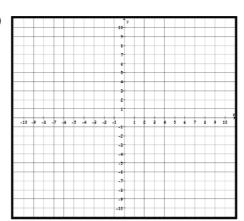
Period \_\_\_\_\_ Date \_\_\_\_

- 5. Plot the points A (0, 6), B (6, 2), C (4, -4), and D (-4, 2)
- Find W, the midpoint of  $\overline{AB}$ 6.

Find X, the midpoint of  $\overline{BC}$ 

Find Y, the midpoint of  $\overline{CD}$  \_\_\_\_\_

Find Z, the midpoint of  $\overline{AD}$ 



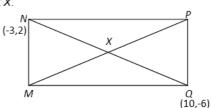
7. Rectangle MNPQ has diagonals that intersect at point X.

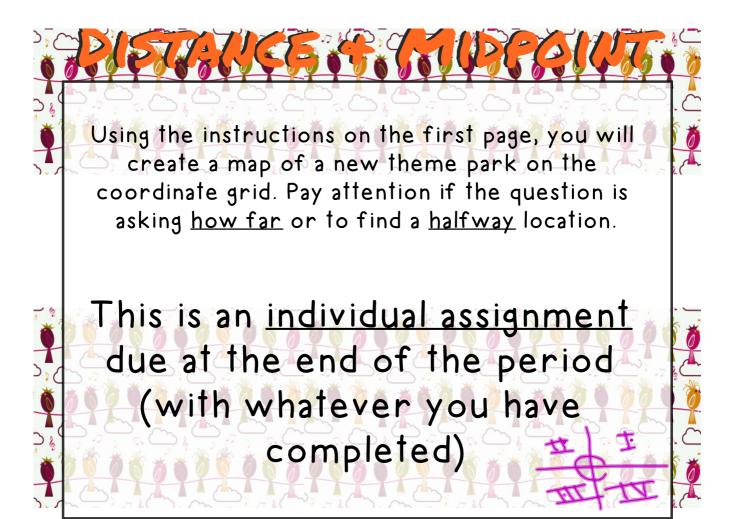
Which of the following represents the point X?



B. 
$$\left(\frac{13}{2},4\right)$$

$$C \quad \left(-\frac{13}{2}, -4\right) \qquad D. \qquad \left(-\frac{7}{2}, 2\right)$$





3,0	CALCULATORS				
	If you have your calculator today and would like to turn it in:				
1	On an index card, write the following:				
	Name:				
	ID #:				
<b>8</b> 8 7	Calculator #:				
(find on the barcode by the batteries or engraved on the back)					
	Calculators are due FRIDAY at the latest,				
	otherwise your name will go on the hold				
list.					

Let's Ride <u>Congratulations!</u> You are now the owner of a brand new theme park!  Create an appropriate name for your new theme park (not Six Flags or Disney):				
	fore you open your park to everyone, the city of Richardson asks that you follow eir specific instructions below about where all your things can go.			
	<u>Step 1</u> : The cotton candy stand is located at (8, 8). Label the point C. Your hot dog stand needs to be located at (-1, 0). Label that point H.			
	Step 2: You must place the carousel ride (point R) half way between the cotton candy stand and the hot dog stand. Find and plot point R on your grid paper.			
	<u>Step 3</u> : Create a name for your awesome, new, and faster than light, rollercoaster.  Place your new rollercoaster in Quadrant II on your graph paper. Label this point A.			
	Step 4: What is the distance between your new rollercoaster (point A) and the hotdog stand (point H)?			
	<u>Step 5</u> : How you forget the bathroom!? Plot point B anywhere you want in Quadrant III. What are the coordinates for point B that you picked?			

- □ <u>Step 6</u>: You only want one bathroom?! Build another bathroom <u>half way</u> between your first bathroom (point B) and your rollercoaster (point A). Find and label this point X on your graph paper.
- □ Step 7: How far apart are the two bathrooms? (Hint: do you use midpoint or the distance formula?)

□ <u>Step 8</u>: Place a pretzel stand anywhere you want in Quadrant IV. Label this point P. How far apart is your rollercoaster (point A) from the pretzel stand (point P)? (Hint: do you midpoint or distance?)



## Grading Rubric:

Theme park map	
Name of Park	5 pts
Plotting all points correctly	20 pts
Label x-axis/y-axis	5 pts
Pictures! ☺	10 pts
Answering ALL steps	25 pts
Creativity	15 pts
Neatness	5 pts
Showing work	15 pts

**BONUS:** If you are extra creative and colorful, you can earn up to 10 extra points.