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Dearbornville City Map Project

With distance formula, midpoint formula, & section formula

DISTANCE FORMULA	MIDPOINT FORMULA	SECTION FORMULA
$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	$M:\left(\frac{x_2+x_1}{2},\frac{y_2+y_1}{2}\right)$	$\left(\frac{mx_2 + nx_1 + ny_2 + ny_1}{m+n}\right)$
http://www.purplemath.com/modules/	http://www.freemathhelp.com/	http://math.tutorvista.com/geometry/
distform.htm	midpoint-formula.html	section-formula.html

- 1. Begin by drawing and labeling the x and y axis on your graph paper. Make sure that your axis cover the entire area of the page and both go from -15 to +15. Imagine that each number represents ONE MILE
- 2. Plot and label the following locations on your Dearbornville map to begin:

Burger King at (-2, 3)	Wal-Mart at (4, -4)
Panera Cares at (12, 1)	Target at (-12, 7)
City Hall at (-9, -7)	BP gas station at (1, -10)
Post Office at (-3, 13)	articles and the sound of an entropy of the entertainty

- 3. Yogurt Town is located at the midpoint of Burger King and Target. Plot and label Yogurt Town on the map and write the coordinates of Yogurt Town here ______.
- 4. The library is located at the **midpoint** of City Hall and the post office. Plot and label the library on the map and write the coordinates of the library here ______.
- Kroger is located at the 2/3 point between Wal-Mart and Panera (but closer to Walmart). Plot and label Kroger on the map and write the coordinates of Kroger here ________. (section formula)
- 6. Dearbornville High School (DHS) is the **midpoint** between City Hall and Panera. Plot and label DHS on the map and write the coordinates of DHS here ______.
- 7. The fire station is the **midpoint** between the post office and BP gas station. Plot and label the fire station on the map and write the coordinates of the Fire station here ______.

8.	Find the distance between City Hall and Target. Write that distance here
9.	Find the distance between City Hall and the fire station. Write that distance here If the fire station is the midpoint between City Hall and Greenfield Village, what are the coordinates for Greenfield Village? Write the coordinates for Greenfield Village here Plot and label Greenfield Village on the map.
¾ ¢.	O'Sushi is located ¼ of the distance between the post office and Panera Cares (but closer to Panera). Plot and label O'Sushi on the map and write the coordinates for O'Sushi here (section formula)
11.	Fairlane Mall is located at the midpoint of City Hall and BP gas station. Plot and label Fairlane Mall on the map and write the coordinates of Fairlane Mall here
12.	Eddie Ford High School (EFHS) is located at the midpoint of Walmart and City Hall. Plot and label EFHS on the map and write the coordinates of EFHS here
1 6.	Ford is located at the 4/5 point between Burger King and Walmart (but closer to Walmart). Plot and label Ford on the map and write the coordinates of Ford here (section formula)
14.	Find the distance between the post office and Target. Write that distance here
15.	Find the distance between the post office and Walmart. Write that distance here
16.	Find the distance between Panera Cares and Target. Write that distance here
17.	Find the distance between BP gas station and Panera Cares. Write that distance here
18.	Find the distance between Burge King and BP gas station. Write that distance here
*MA	APS WILL BE GRADED ON NEATNESS, COLORFULNESS, AND PRECISION.
*	ISWERS SHOULD BE RECORDED ABOVE. HOWEVER STUDENTS MUST SHOW ALL WORK ON A SPEARATE PAGE

TO RECEIVE FULL POINTS.

Name_____