

CW: Day 2 Distance and Midpoint Formula

Name: _____

1. Using the distance formula find the distance between points R(-2, -8) and P (-7, -3).
2. Using the distance formula find the distance between points L(-6, 1) and E(4, 5).
3. Find the length of WL. (DISTANCE) If W (-2,3) and L (-1, 4).

Use the Midpoint formula.

4. Find the midpoint, M, of segment AB, if A (-4, 10) and B (2, 8)
5. Find the midpoint, M, of segment DF, if D(3, 7) and F(-6, -1)
6. P is the midpoint of segment KR. If P (7,-5) and R (4, -2), find the coordinates of point K.
9. K is the midpoint of segment LM. If K (2,4) and L (-1, -1), find the coordinates of point M.
10. Find the midpoint of PU with P(3, -1) and U(5, 2).

11. D is the midpoint of \overline{CF} for the points $C(4, -1)$ and $F(2, 5)$. Find DF .

12. D is the midpoint of \overline{CF} for the points $C(-2, 6)$ and $F(4, 7)$. Find DF .

Use the following word problem to answer questions 13-15.

Maria and Jackson live in adjacent neighborhoods. If they superimpose a coordinate grid on the map of their neighborhoods, Maria lives at $(-8, 1)$ and Jackson lives at $(3, -3)$. Each unit on the grid is equal to approximately 0.132 mile.

13. How far apart do Maria and Jackson live?

14. If April lives equidistant to both Maria and Jackson, at what coordinate on the grid would she live?

15. How far apart would Maria and April live?