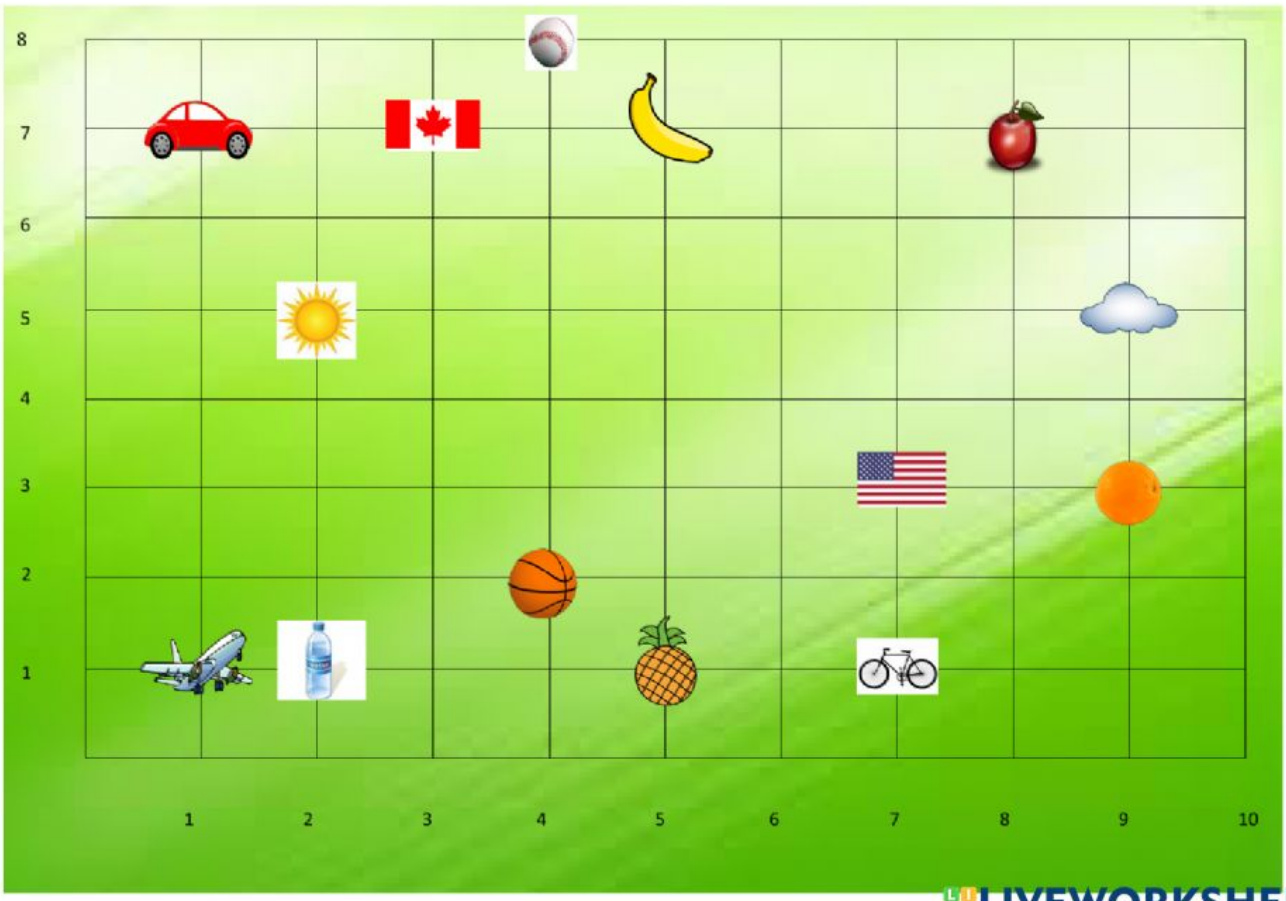

Name: Date:

Distance Formula $\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$

Midpoint Formula $M:\left(\frac{x_2+x_1}{2},\frac{y_2+y_1}{2}\right)$

1. Use the midpoint formula to find the midpoint between the car (1,7) and the bicycle (7,1)?

$M = \left(\frac{1 + 7}{2}, \frac{7 + 1}{2}\right)$

M = (,)

2. Use the distance formula to find the distance between the apple (8,7) and water bottle (2,1)?

$= \sqrt{(8 - 2)^2 + (7 - 1)^2}$

$= \sqrt{(6)^2 + (\quad)^2}$

$= \sqrt{\quad + 36}$

$= \sqrt{\quad}$

$= 8.48$

3. Use the midpoint formula to find the midpoint between the banana(5,7) and the orange (9, 3) ?

$M = \left(\frac{\quad + \quad}{\quad}, \frac{\quad + \quad}{\quad} \right)$

M = (,)

4. Use the distance formula to find the distance between the Canadian (3, 7) and American flag (7, 3)?

$= \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$

$= \sqrt{(\quad)^2 + (\quad)^2}$

$= \sqrt{\quad + \quad}$

$= \sqrt{\quad}$

$=$