**BLM 7.SS.5.2: A Coordinate Map**

**Steps**

1. Create a point map of a community by placing dots on the grid below to represent places in the community on six intersections scattered around the grid. Label each point with a capital letter (e.g., H for home, S for school, D for dentist). Write the places and symbols in the Places in the Community chart beside the grid.
2. Make five trips around the community. Record each trip in words and in symbols and record a description of the movement. You must stay on the lines; do not take any shortcuts.
3. Add axes to your grid to create a Cartesian plane. Include all four quadrants. Label the axes. Remember that you do not need to number every line.
4. Add a column to the Places in the Community chart for the *x*- and *y*-coordinates of your points. Record the ordered pairs to represent each place.
5. Record the coordinates of your trips in the fourth column of the trip chart.
6. The final column may be used to record the movement between the coordinates.

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|  | **Places in the Community** | | |
|  | **Places** | **Symbols** | **Coordinates**  **(Ordered Pairs)** |
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| **Trips around the Community** | | | | |
| **Trips**  **in**  **Words** | **Symbols** | **Describe the Movement**  **Horizontal / Vertical Change** | **Coordinates of Trip** | **Movement between Coordinates** |
| *Example:*  Home to pizza | H → P | 5 units right, 9 units up | (9, –8) → (14, 1) | *x* = (14 – 9) *y* = (1 – –8)  *x* changes by +5  *y* changes by +9 |
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