Name _____

Problem Solving • The Coordinate Plane

Common Core

COMMON CORE STANDARD—6.NS.C.8
Compute fluently with multi-digit numbers and find common factors and multiples.

Read each problem and solve.

1. On a coordinate map of Clifton, an electronics store is located at $(6, ^-7)$. A convenience store is located 7 units north of the electronics store on the map. What are the map coordinates of the convenience store?

   (6, 0)

2. Sonya and Lucas walk from the school to the library. They walk 5 blocks south and 4 blocks west to get to the library. If the school is located at a point $(9, ^-1)$ on a coordinate map, what are the map coordinates of the library?

3. On a coordinate map, Sherry's house is at the point $(10, ^-2)$ and the mall is at point $(^-4, ^-2)$. If each unit on the map represents one block, what is the distance between Sherry's house and the mall?

4. Arthur left his job at (5, 4) on a coordinate map and walked to his house at $(5, ^-6)$. Each unit on the map represents 1 block. How far did Arthur walk?

5. A fire station is located 2 units east and 6 units north of a hospital. If the hospital is located at a point $(^-2, ^-3)$ on a coordinate map, what are the coordinates of the fire station?

6. Xavier's house is located at the point (4, 6). Michael's house is 10 blocks west and 2 blocks south of Xavier's house. What are the coordinates of Michael's house?

7. WRITE Math Write a problem that can be solved by drawing a diagram on a coordinate plane.