Problem Solving: Solve a Simpler Problem

Read	Rena's friend Emma is coming to visit her. Rena made her the map below showing Emma the way to her house.
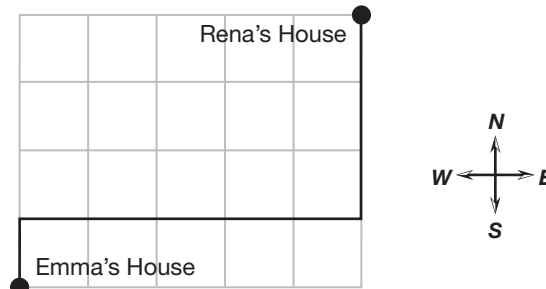
How many blocks does Emma have to travel to get to Rena's house?

Plan & Solve	First, break the problem into simpler problems. **First problem:** Following the map, Emma has to travel north before turning east. How far does she have to travel north? *1 block north*
Plan & Solve	**Second problem:** Emma has to travel east before turning north. How far does she have to travel east? *5 blocks east*
Plan & Solve	**Third problem:** Emma now has to travel north to arrive at Rena's house. How far does she have to travel north? *3 blocks north*
Check	I can count the blocks and follow the route to check my calculations. Traveling 1 block north, 5 blocks east, and 3 blocks north will get Emma to Rena's house. Emma travels 9 blocks.

Use the information in the graph above to answer the following problems.

1. When her visit is over, Emma will use the same route to return back to her home. How many blocks will Emma have to travel for the entire trip to get to Rena's house and back home again?

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2. When Emma returns home, explain how she will travel.

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For **1** and **2**, use the graph to the right.

**1.** Mike is going from the video store to the deli to the post office. How many units does he travel?

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Anytown, USA

Bank (5, 8)
Deli (2, 6)
Book Store (5, 5)
Video Store (1, 4)
Post Office (4, 4)

2. Raja is going from the bank to the post office to the video store. Does he travel more units than Mike?

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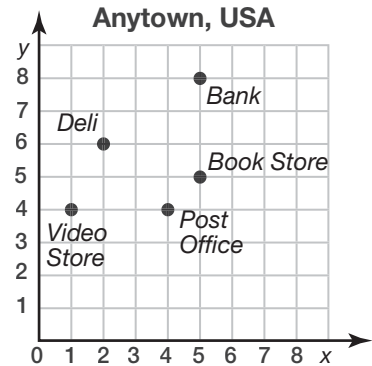
For **3** and **4** use the graph to the right.

3. Stephanie walked from the CD players to the MP3 players to the stereos. How many units did she walk?

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Electronics Store

CD Players (6, 8)
Stereos (2, 4)
MP3 Players (3, 3)
Speakers (1, 1)

4. Jule walked from the speakers to the stereos to the MP3 players. How many units did he walk?

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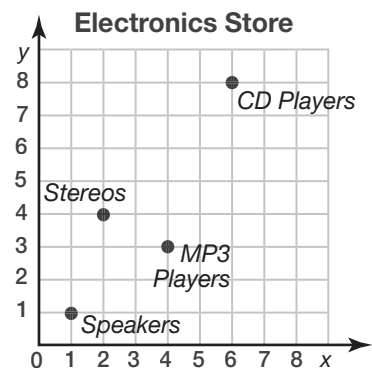
5. Use the graph from Problems 1 and 2. Which location is the farthest from the bank?

    A Video Store   **B** Deli   **C** Post Office   **D** Book Store

6. Sal made a map of his neighborhood. According to his map, Sal's house is 6 units away from the grocery store. The grocery store is 5 units away from the coffee shop. The coffee shop is 1 unit from Sal's house. How is this possible?

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