Problem Solving: Work Backward

Work backward to find each starting position.

- **1. Starting** (*x*, *y*). _____
 - 4 units -> (14, 20)
 - 2 units 1 (14, 22)
 - 5 units **←** (9, 22) **Ending**
- **2.** Starting (*x*, *y*).
 - 2 units **v** (5, 6)
 - 3 units -> (8, 6)
 - 1 unit **↑** (8, 7) **Ending**
- **3.** Starting (*x*, *y*).
 - 8 units **1** (5, 13)
 - 4 units -> (9, 13)
 - 6 units → (15, 13) **Ending**
- 4. Martha must finish her math quiz in 35 minutes. She knows that there are 10 multiple-choice questions and 5 word problems. If each word problem takes her exactly 3 minutes to complete, how much time can she spend on each multiple-choice question?
- **5.** Kori arrived at school on time, at exactly 8:30 A.M. If it took him 15 minutes to walk to school, 10 minutes to eat breakfast, and 18 minutes to get ready, what time did he wake up this morning?
 - **A** 7:37 A.M.
- **C** 7:57 A.M.
- **B** 7:47 A.M.
- **D** 8:07 A.M.
- **6.** Jerry used his \$100 gift certificate to go shopping. He bought pants for \$25, a shirt for \$15, and socks for \$3. Then he bought a pair of shoes. Jerry still has \$27 left. How much were the shoes that he bought? Explain how you know.