

Student Guide

Reading a Map (SG pp. 274–275)

Questions 1–3

1. No; Coordinates describe the approximate location. (5, 6) is close to Fisk.
2. Priceville
3. Trinity

Homework (SG p. 275)

Questions 1–5

1. About 35–40 miles
2. About 75 miles
3. About 70–75 miles
4. About 115 miles
5. Athens to Elkmont, to Toney to New Market, to Owens Crossroads to Grant, to Union Grove to Morgan City, to Priceville. About 240 miles.

Reading a Map

Suzanne is a big fan of Carlton Fisk, the great catcher who played with both the Boston Red Sox and the Chicago White Sox baseball teams. When she traveled with her family, she looked for places that might have "Fisk" in the name. One summer, her family was planning a trip to Alabama. She looked in an atlas at a list of the names of towns and found that there was indeed a Fisk, Alabama. Next, she looked at a map.

scale: 1 cm = 10 miles

Suzanne had a very difficult time locating Fisk. If you were with her, how might you help her? What do you know about the way maps and atlases work that would aid in finding Fisk?

Suzanne's mother pointed out that it is possible to use the numbers on the map in the same way Suzanne had used a coordinate system in school. When Suzanne looked up Fisk again in the atlas index, she paid attention to the ordered pairs following the name. She found (5, 6). Suzanne also learned that a lot of maps use a combination of letters and numbers as a coordinate system. On another map, for example, Fisk might be named as (E, 6).

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Use the map and information on the previous page to answer the following questions.

1. Find Fisk on the map. Is Fisk at exactly (5, 6)? What are the coordinates designed to do?
2. What town is located at about (3, 2)?
3. Look at the four ordered pairs (1, 2), (1, 3), (2, 2), and (2, 3). What town is located almost in the center of all the points?

Homework

Using a Map to Find Distances

The map of north central Alabama on the previous page has the scale 1 centimeter = 10 miles. Use the ordered pairs below to help you locate the towns and solve the distance problems. You will need a ruler. Measure distances "as the crow flies," which means in a straight line.

Athens (2, 4)	Elkmont (2, 5)	Grant (7, 2)
New Market (6, 5)	Owens Crossroads (6, 2)	Priceville (3, 2)
Toney (4, 5)	Union Grove (6, 1)	Morgan City (5, 1)

1. About how far is it from Morgan City to Grant?
2. About how far is it from Union Grove to Toney?
3. About how far is it from Priceville to New Market?
4. Suppose you went from Grant to New Market to Elkmont. How many miles would you have traveled?
5. If you wanted to travel to all the towns listed above without zig-zagging across the region, in what order might you travel? How many miles would you cover? Think about the shortest route possible. Plan to share your proposed route with the class.

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