# Where Water Went

Use location data to explain flooding and plan a response.

**7.C.1** "Analyze data from a geographic perspective using the skills and tools of geography. Describe the role of geographic factors on events..."

NAME _____ DATE _____

## 1 READ AND MARK

Read it twice

**YOUR JOB** Circle one neighborhood's distance, height, and flooded-home count in the table, then underline a sentence in the passage that helps explain its results.

### A Storm in Pineford

1 After a heavy rain, water rose along Cedar Creek in the made-up town of Pineford. Town crews visited four neighborhoods the next morning. At each place, they measured distance to the creek and height above its usual water level. They also counted flooded homes in a group of 20 homes. Their measurements are primary-source evidence.

**PINEFORD CREW SURVEY AFTER THE STORM**

| Neighborhood | Distance from creek (m) | Height above usual creek level (m) | Flooded homes (of 20) |
|---|---|---|---|
| West Bank | 80 | 2 | 14 |
| East Bank | 200 | 3 | 9 |
| Hilltop | 500 | 15 | 0 |
| Downstream Flats | 120 | 1 | 18 |

2 A neighborhood's position can shape what happens in a storm. Lower land often collects water, while nearby waterways may overflow. Yet a creek's shape, drains, and blocked roads can also matter. The crew checked the same number of homes in each neighborhood, so their counts can be compared. The table records only this one storm.

3 A later town planning report, a secondary source, uses the crew's data to suggest placing a temporary supply station on higher ground. Before choosing a site, planners would need road-closure reports and a map of where residents live. A safe station is useful only if people can reach it. Another storm could follow a different pattern.

## 2 ANSWER WITH EVIDENCE

Use the passage

1. Compare Downstream Flats and Hilltop using their distance and height measurements. How do these relate to their flooded-home counts?

2. Which two neighborhoods are closest to the creek? How do their heights and flooded-home counts compare?

3. Which is primary-source evidence, the crew's table or the planning report? Explain how each source was made.

4. If a similar storm happens, which neighborhood would you watch most closely for flooding? Support your prediction with two table values.

## 3 YOUR TURN

Your own words

Choose one of the four neighborhoods for a temporary supply station. In three sentences, use two table values to defend your choice, name one other kind of location data to check, and explain how that data could change your plan.

**ANSWER KEY**

# Where Water Went

**GRADE 7 · 7.C.1**

## PART 1 · READ AND MARK

Circle one neighborhood's distance, height, and flooded-home count in the table, then underline a sentence in the passage that helps explain its results. Accept any marking that follows this job and points at the right text.

## PART 2 · ANSWERS

| # | QUESTION | ANSWER |
|---|---|---|
| 1 | Compare Downstream Flats and Hilltop using their distance and height measurements. How do these relate to their flooded-home counts? | **Downstream Flats is 120 m from the creek and 1 m above its usual level, with 18 flooded homes. Hilltop is 500 m away and 15 m above its usual level, with none flooded.** |
| 2 | Which two neighborhoods are closest to the creek? How do their heights and flooded-home counts compare? | **West Bank and Downstream Flats are closest, at 80 m and 120 m. Downstream Flats is lower, at 1 m rather than 2 m, and has more flooded homes, 18 rather than 14.** |
| 3 | Which is primary-source evidence, the crew's table or the planning report? Explain how each source was made. | **The table is primary-source evidence because crews gathered the measurements and counts directly. The later planning report is secondary because it uses the crews' data.** |
| 4 | If a similar storm happens, which neighborhood would you watch most closely for flooding? Support your prediction with two table values. | **Downstream Flats is a reasonable choice. It is only 1 m above the creek's usual level, and 18 of its 20 sampled homes flooded.** |

## PART 3 · YOUR TURN (SAMPLE ANSWER)

I would place the supply station at Hilltop because it is 15 meters above the creek and none of its 20 sampled homes flooded. I would check a map of road closures between Hilltop and the other neighborhoods. If the roads into Hilltop were closed, I would look for another reachable site instead.

Accept predictions and station sites that use accurate table values and explain the geographic reasoning. Students should treat the survey as evidence from one storm, not proof that future flooding will follow the same pattern.