

Heat Hunt

Use details from several sources to support a careful conclusion.

5.13.E "demonstrate understanding of information gathered;"

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the details that support the class's claim. Circle one sentence that explains a limit of the claim.

Why Is One Place Hotter?

- ① On a hot day, Mia's class investigated why some parts of their town felt warmer than others. They used a thermometer to measure temperatures at noon in three places: a shaded park, a blacktop playground, and a tree-lined street. They also looked at a city map and counted trees in each place. Their notes gave them information from measurements, observations, and a map.
- ② The blacktop playground measured 96 degrees Fahrenheit. The shaded park measured 82 degrees, and the tree-lined street measured 86 degrees. On the map, the park and street had more trees than the playground. The class also noticed that the playground's dark surface sat in direct sunlight. One measurement does not prove a cause, but the different sources pointed to a useful pattern.
- ③ After comparing their notes, the class wrote a claim: places with more shade and trees were cooler at noon than the blacktop playground. They supported this claim with the temperature results and the map information. The class did not say that trees were the only reason for the temperature difference. They knew sunlight and dark pavement might matter too. Their conclusion showed what the gathered information supported and what it did not yet prove.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What three ways did the class gather information?

2 What pattern did the class find when they compared the three places?

3 Explain how the thermometer results and the map information supported the class's claim.

4 Why did the class avoid saying that trees were the only cause of the temperature difference?

3 YOUR TURN _____ Your own words

Write exactly three sentences for a school bulletin about the investigation. State the class's finding, use information from two kinds of sources, and explain one limit of the conclusion.

PART 1 • READ AND MARK

Underline the details that support the class's claim. Circle one sentence that explains a limit of the claim. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What three ways did the class gather information?	They gathered thermometer measurements, observations, and information from a city map.
2	What pattern did the class find when they compared the three places?	The shaded park and tree-lined street were cooler at noon than the blacktop playground.
3	Explain how the thermometer results and the map information supported the class's claim.	The park and street had lower temperatures, 82 and 86 degrees, than the 96-degree playground, and the map showed that the cooler places had more trees.
4	Why did the class avoid saying that trees were the only cause of the temperature difference?	Their information showed a pattern but did not prove one cause. Direct sunlight and dark pavement might also affect temperature.

PART 3 • YOUR TURN (SAMPLE ANSWER)

The class found that the shaded park and tree-lined street were cooler at noon than the blacktop playground. Thermometer readings were 82, 86, and 96 degrees, and the map showed more trees at the cooler places. The information suggests that shade and trees matter, but it does not prove they were the only cause.

Accept equivalent descriptions of the sources, evidence, pattern, and limits. For the open task, accept three sentences that state a supported finding, use two source types, and avoid claiming that the information proves a single cause.