Rain Barrel Evidence

Use words and data to make a garden decision.

CCSS.ELA-Literacy.CCRA.R.7 "Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words. 1"

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline details that explain why a barrel collected its amount of water. Circle each barrel's number in the table, then draw a line from each underlined detail to the number it helps explain.

Water for the Garden

1 Riverside Middle School added four rain barrels beside the garden shed. Each barrel catches water that runs off the shed roof during storms. Garden club members use the stored water on sunny days, when young plants need moisture. In April, they measured how many liters each barrel collected after four rainy weeks. The records below show that the barrels did not collect the same amount, even though they stood near one another in similar places.

APRIL RAIN BARREL COLLECTION

Barrel	Water Collected, liters
A	120
B	80
C	150
D	110

2 Barrel C collected the most water because its downspout carried runoff directly into its opening. Barrel B collected the least because a bent gutter spilled some water onto the sidewalk. The club fixed that gutter before May. The members also noticed that a full barrel could water the tomato bed for two days. They planned to save the fullest barrel for the driest part of each week and use smaller amounts first from the other barrels.

3 In May, the club will measure each barrel again and compare the new totals with April's records. They expect the repaired gutter to help Barrel B catch more water, but they will need measurements to check that idea. The club will also write down how often gardeners use water from each barrel. By combining the written observations with the numbers, members can decide whether their changes make the system more useful for the garden later.

2 ANSWER WITH EVIDENCE

Use the passage

1. Which barrel's number best supports the statement that it collected the most water? Give the barrel name and the number.

2. How many more liters did Barrel C collect than Barrel B? Show how the table helps you find the answer.

3. Barrel B collected 80 liters. What written detail explains why its total was low, and what did the club do about the problem?

4. What May measurement should the club compare with Barrel B's April total of 80 liters? Explain why this comparison matters.

3 YOUR TURN

Your own words

Complete both rows of the decision table. For Barrel C and Barrel B, write a different garden plan, then give one table number and one written detail that support each plan.

BARREL	GARDEN PLAN	EVIDENCE FROM WORDS AND DATA

ANSWER KEY

Rain Barrel Evidence

GRADES K-12 · CCRA.R.7

PART 1 · READ AND MARK

Underline details that explain why a barrel collected its amount of water. Circle each barrel's number in the table, then draw a line from each underlined detail to the number it helps explain. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Which barrel's number best supports the statement that it collected the most water? Give the barrel name and the number.	**Barrel C, 150 liters.**
2	How many more liters did Barrel C collect than Barrel B? Show how the table helps you find the answer.	**70 liters. Barrel C collected 150 liters and Barrel B collected 80 liters, so 150 minus 80 equals 70.**
3	Barrel B collected 80 liters. What written detail explains why its total was low, and what did the club do about the problem?	**A bent gutter spilled water onto the sidewalk. The club fixed the gutter before May.**
4	What May measurement should the club compare with Barrel B's April total of 80 liters? Explain why this comparison matters.	**The club should compare Barrel B's May total with its April total of 80 liters. This will show whether fixing the gutter helped Barrel B collect more water.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

BARREL	GARDEN PLAN	EVIDENCE FROM WORDS AND DATA
Barrel C	Save Barrel C for a dry day.	It collected 150 liters, the most, and its downspout carried runoff directly into the opening.
Barrel B	Measure Barrel B again after rain.	It collected 80 liters, the least, and the club repaired its bent gutter.

Accept any supported plan that correctly connects a barrel's table value with a relevant detail from the passage. Students may choose different reasonable actions if their evidence is accurate.