Where Water Waits

Read clues and graph Earth's water.

E.3.9.3 "Use graphical representations to communicate the distribution of freshwater and saltwater on Earth (e.g., oceans, lakes, rivers, glaciers, groundwater, or polar ice caps)."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

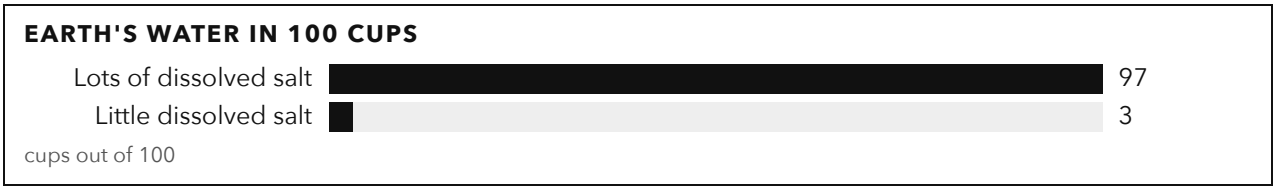
YOUR JOB Underline one clue about salt in the ocean and one clue about salt in the lake. Then circle the number on the bar that matches the lake clue.

Maya Follows Water

1. Maya rides a boat across the ocean. A wave splashes her jacket. When the drops dry, tiny salt grains stay behind. Later, Maya walks by a river that flows into a lake. A ranger tests the lake water and finds only a tiny amount of salt. Both places hold water, but their water is not alike.

2. High in the mountains, snow melts and feeds the river. Far below Maya's feet, some water fills spaces in soil and rock. A well can bring it up. Near Earth's poles, huge sheets of ice cover land. Glaciers, which are thick masses of ice, also hold water that fell as snow.

3. Imagine splitting all the water on Earth into 100 equal cups. The bar chart shows about how many cups belong to each group. Bars compare water with lots of dissolved salt and water with little dissolved salt. Even the smaller group can be found in more than one place. Look for clues in Maya's trip.



2 ANSWER WITH EVIDENCE

Use the passage

1. Which bar matches the ocean water in Maya's trip? Give its number and a clue from the passage.

2. Which bar matches the lake water? Give its number and a clue from the passage.

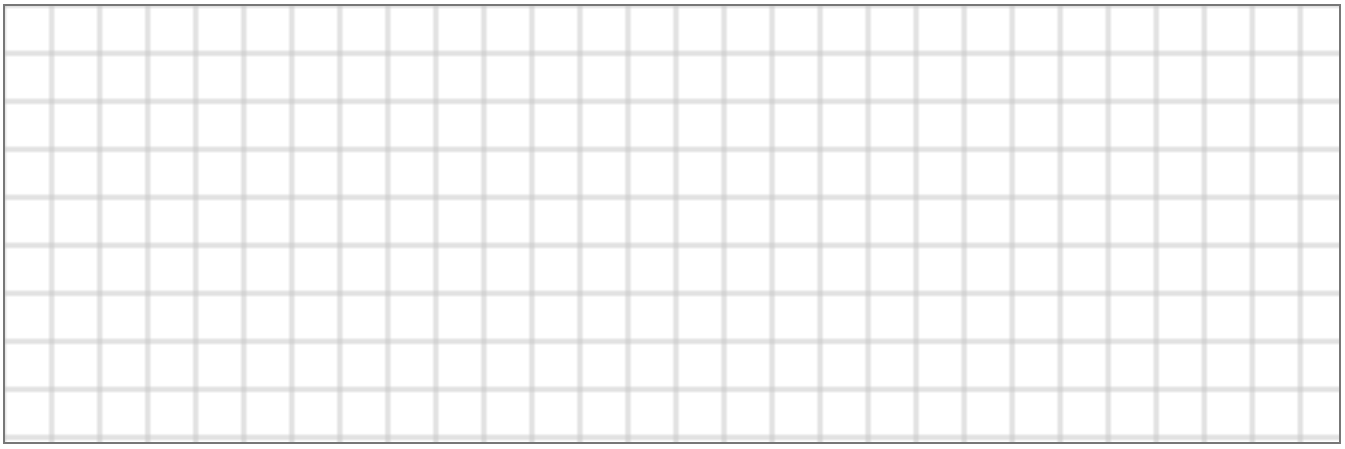
3. About how many more of the 100 cups are in the larger group? How do the bars show this?

4. Which bar would include water in glaciers and polar ice? Use a clue from the passage to explain.

3 YOUR TURN

Your own words

Draw a new bar graph on the grid to show 20 cups of Earth's water: 19 cups with lots of dissolved salt and 1 cup with little dissolved salt. Label both bars, then write one sentence about what your graph shows.



ANSWER KEY

Where Water Waits

GRADE 3 · E.3.9.3

PART 1 · READ AND MARK

Underline one clue about salt in the ocean and one clue about salt in the lake. Then circle the number on the bar that matches the lake clue. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Which bar matches the ocean water in Maya's trip? Give its number and a clue from the passage.	**The 97-cup bar matches the ocean. Salt grains stayed on Maya's jacket after the wave dried.**
2	Which bar matches the lake water? Give its number and a clue from the passage.	**The 3-cup bar matches the lake. The ranger found only a tiny amount of salt in its water.**
3	About how many more of the 100 cups are in the larger group? How do the bars show this?	**About 94 more cups. The 97-cup bar is much longer than the 3-cup bar.**
4	Which bar would include water in glaciers and polar ice? Use a clue from the passage to explain.	**The 3-cup bar. Glaciers hold water that fell as snow, which has little dissolved salt.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

A graph has a numbered scale from 0 to 20. The bar labeled “Lots of dissolved salt” reaches 19, and the bar labeled “Little dissolved salt” reaches 1. Sentence: In this model, the water with lots of dissolved salt fills 18 more cups.

Accept equivalent clues that connect a place to a bar's salt label. In Part 3, the bars must reach 19 and 1 on the same scale, and the sentence must accurately describe the student's graph.