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3. The students in Mrs. Dewey's class are trying to write the rule to find the volume in quarts when they know the volume in cups.

| Input | Output |
| :---: | :---: |
| Volume in <br> Cups | Volume in <br> Quarts |
| 4 | 1 |
| 8 | 2 |
| 12 | 3 |
| 16 | 4 |
| 20 | 5 |


A. Look at the function table. Test each student's rule. Do you agree with Grace or Michael? Why or why not?
B. Nicholas wants to measure 28 cups of water but has only a 1 -quart measure. Use the rule you found in Question 3A to find the volume of water in quarts.
4. The students in Mrs. Dewey's class are trying to write the rule for the total $(T)$ volume of water and marbles in the graduated cylinders in the Volume vs. Number Lab.

A. Do you agree with Keenya, Roberto, or Irma? Why or why not?
B. What will the total volume be after 10 marbles are added?

For more practice, complete the Using Different Units pages in your Student Activity Book.
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*Answers and/or discussion are included in the lesson.
| TG • Grade $4 \cdot$ Unit $13 \cdot$ Lesson 5•Answer Key

