









# **Additional** Practice 10-4 **Critique Reasoning**

# Another Look!

A cooking class needs 20 quarts of raspberries. The instructor, Mr. Romano, made a line plot to show how many quarts of raspberries each student picked at a raspberry farm. Then he said, "We need another  $\frac{3}{4}$  quart." He showed the class:

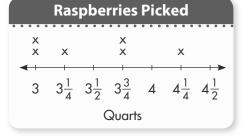
$$(2 \times 3) + 3\frac{1}{4} + \left(2 \times 3\frac{3}{4}\right) + 4\frac{1}{4} = 6 + 3\frac{1}{4} + 5\frac{3}{4} + 4\frac{1}{4} = 19\frac{1}{4}.$$

# Tell how you can critique Mr. Romano's reasoning.

- I can decide if his strategy makes sense.
- I can look for flaws in his calculations.
- I can clarify or correct his reasoning.

### Critique Mr. Romano's reasoning.

Mr. Romano's strategy makes sense, but he made a careless mistake in his calculations.  $(2 \times 3\frac{3}{4}) = 7\frac{1}{2}$ , not  $5\frac{3}{4}$ . So, the class picked  $6 + 3\frac{1}{4} + 7\frac{1}{2} + 4\frac{1}{4} = 21$  quarts. They have enough raspberries



When you critique reasoning, you explain why someone's thinking is correct or incorrect.



# **Critique Reasoning**

Gillian said that if all the students and Mr. Romano had each picked just  $2\frac{1}{2}$  quarts of raspberries, they would have had enough. She estimated  $7 \times 3 = 21$ .

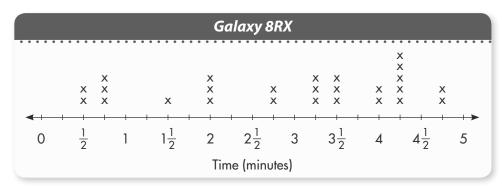
- **1.** Tell how you can critique Gillian's reasoning.
- 2. Critique Gillian's reasoning.
- **3.** Identify the flaw in Gillian's thinking.





#### **Video Game**

Lydia is playing *Galaxy 8RX*. After three misses, the game is over. Last week, Lydia kept track of how long her games lasted. She made a line plot of her data. Lydia said, "My best time is  $2\frac{3}{4}$  minutes longer than my worst time because  $4\frac{1}{4} - 1\frac{1}{2} = 2\frac{3}{4}$ ."



- **4. Model With Math** Is subtraction the correct operation to compare Lydia's best and worst times? Explain.
- **5. Be Precise** Are Lydia's calculations accurate? Show how you know.
  - reasoning, you need to carefully consider all parts of a person's reasoning.



**7. Critique Reasoning** Does Lydia's conclusion make sense? How did you decide? If not, what can you do to improve her reasoning?



When you critique