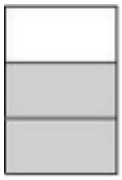
6.NS Cup of Rice

Task

Tonya and Chrissy are trying to understand the following story problem for $1 \div \frac{2}{3}$:

One serving of rice is $\frac{2}{3}$ of a cup. I ate 1 cup of rice. How many servings of rice did I eat?

To solve the problem, Tonya and Chrissy draw a diagram divided into three equal pieces, and shade two of those pieces.



Tonya says, "There is one $\frac{2}{3}$-cup serving of rice in 1 cup, and there is $\frac{1}{3}$ cup of rice left over, so the answer should be $1\frac{1}{3}$."

Chrissy says, "I heard someone say that the answer is $\frac{3}{2} = 1\frac{1}{2}$. Which answer is right?"

Is the answer $1\frac{1}{3}$ or $1\frac{1}{2}$? Explain your reasoning using the diagram.

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