

## Sample Teacher Reflection on Student Work

Included below are the two types of assessment items and sample reflection on student assessment data.

### **Assessment Item Type 1:**

Look at the two ratios. Decide if these two ratios make a proportion. Explain why or why not.

No.	Ratio 1	Proportional or Not Proportional	Ratio 2	Explain your reasoning and show how you know
1.	$\frac{1}{4}$	<input type="checkbox"/> A. Proportional <input type="checkbox"/> B. Not Proportional	$\frac{2}{8}$	

### **Assessment Item Type 2:**

8.	Alice is on the soccer team. She scored 8 goals in the first 10 games. Then she scored 4 more goals in the next 6 games.	When did she have the <i>best</i> scoring rate? <input type="checkbox"/> A. The first 10 games <input type="checkbox"/> B. After she played all the games.
Explain your thinking:		

#### ***Pre-Assessment Data Reflection:***

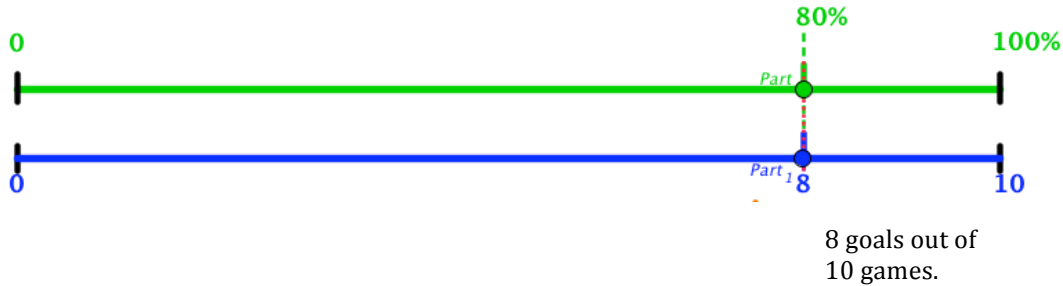
*The students struggled on the pre-probe, partly because they did not know what it meant for two ratios to be equivalent or what the word proportion meant. None of the students used visual, double number line models to solve the problems.*

#### ***Post-Assessment Data Reflection:***

*Prior to the final assessment we used the double number line model. Later we reviewed proportions and applied them to percents. The students did a fantastic job on the post assessments. The class as a whole was able to answer the questions quite well. The only question that still plagued them was the last one, comparing the girl with the first 10 games and then the entire 16 games. Not all of the students set it up appropriately; they just put 4 out of 6 for the second ratio.*

**Next Steps:**

The students need support setting up similar problem types. Use the double number line to set up this and similar problems. They also need to engage more fully around the context of the problem.



**Sample scaffolded questions:**

During the first 10 games, Alice scored 8 goals. This is an 80% average.

She played 6 more games. How many games did she play in all? [16 games]

Alice scored 4 more goals. How many goals did she score in all? [12 goals]

What was her scoring percentage after all 16 games?



You can also show both scenarios on the same visual.

