High Leverage Assessment - 6

Teacher Note

Please consider:

- Administering the entire grade level HLA three times a year (sometime during the months of September, January, and May).

- Only assign tasks that can be completed in one sitting (i.e., assign half the tasks on one day and the remaining tasks on another day).

- Remind students to show their thinking using models, numbers and/or words.

- Some students may not be ready to solve specific tasks. Please allow them to move on to the next question.

- Over time, you should see progress in the complexity of the strategies and/or models that all students use to demonstrate their mathematical thinking.

Purpose - To Share with Students

"This assessment provides evidence of your growth throughout the school year.

In order to see growth, we have to know how you are thinking about these problems each time you see them. That means that we need to see your thinking in words, models, or numbers.

The strategies that you use to make sense of these problems is what demonstrates growth and is therefore most important to us.

You may use the tools that are always available to you in our classroom, but not a calculator or computer.

I may tell you to move on to another problem if I see sufficient evidence of your strategy. I may also ask a question to better help me understand your strategy. You may or may not have time to finish."

High Leverage Assessment

Name:_____   Teacher:_____   Date:_____

1. For every 3 breakfasts the cafeteria serves, they serve 7 lunches.

   The cafeteria serves 24 breakfasts.

   How many lunches did the cafeteria serve?
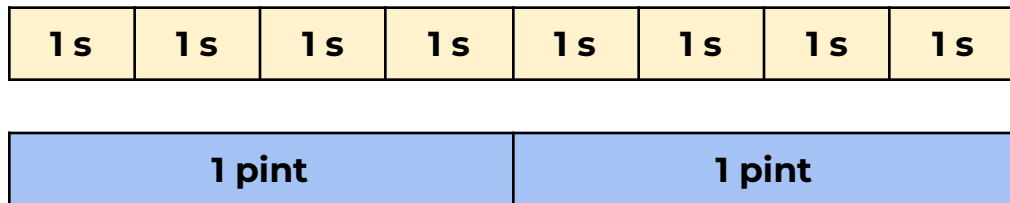
   Explain or show how you know.

High Leverage Assessment

Name:_____   Teacher:_____   Date:_____

1 s	1 s	1 s	1 s	1 s	1 s	1 s	1 s

1 pint	1 pint

2. Omar mixed 8 scoops of flour with 2 pints of water.
The diagram above shows this mixture.

Circle all of the statements below that are true for this situation.

a. There are 8 scoops of flour for every 2 pints of water.

b. There are 2 pints of water for every 8 scoops of flour.

c. The ratio of the number of scoops of flour to the number of pints of water is 1:4.

d. There is 1 pint of water for every 4 scoops of flour.

High Leverage Assessment

Name:_____   Teacher:_____   Date:_____

3. One pound of ground beef costs \$6.

At this rate, what is the cost of:

   a) 3 pounds of ground beef?

   b) 0.5 pound of ground beef?

   c) $\frac{2}{3}$ pounds of ground beef?

High Leverage Assessment

Name:_____ Teacher:_____ Date:_____

Milkshake A	
5 scoops of chocolate ice cream	2 cups of milk

Milkshake B	
1 scoop of chocolate ice cream	$\frac{1}{2}$ cup of milk

Milkshake C	
3 scoops of chocolate ice cream	1 cup of milk

4. Order the milkshakes from most chocolatey to least.

Explain or show your thinking.