

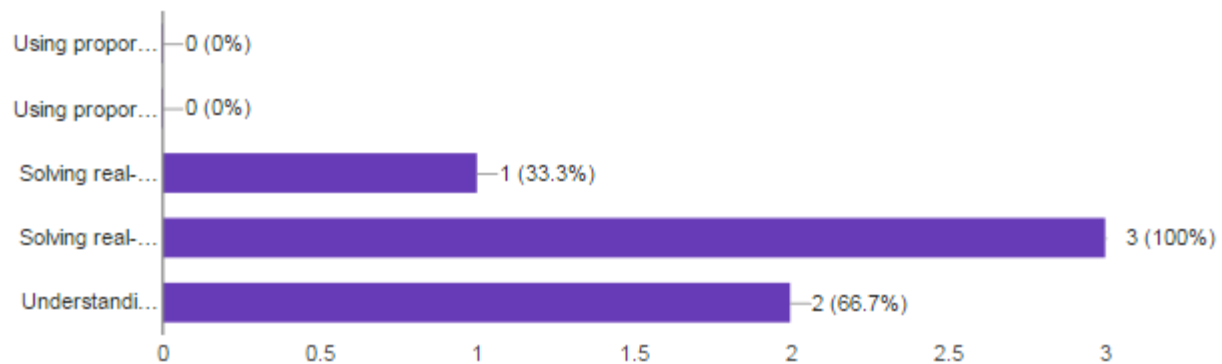
Are We Teaching the Right Math in the Right Way?

7th Grade Math Email PD Session 1a – Teacher Responses

Unpacking the Standards

Out of the list of math topics below, which two do you typically find to be the most challenging for your students?

(3 responses)



Explain why you believe students struggle with the first of the two boxes you checked.

(3 responses)

They do not understand the concept; so, they cannot apply it.

I had hoped with our block instructional time, students would have more time to master multi-step problems. They do well with teacher guided instruction, but they struggle with the multi-faceted applications of the skills on an independent level.

They do not completely answer the question. They get one answer and think they are done.

Explain why you believe students struggle with the second of the two boxes you checked.

(3 responses)

It involves reading comprehension and a knowledge of vocabulary. Many students have a deficit in this area because previous teachers did not cover this in a way for them to grow and understand.

I think students struggle with this objective because it is a more abstract idea. The real life applications that need to be written as expressions and/or simplified are more complicated than previous grades.

They do not completely answer the question. They get one answer and think they are done.

In reference to the two topics you checked, describe an ineffective teaching strategy often used in classrooms.

(3 responses)

Using just the book, check and drill over and over

It is less effective to explain these objectives while students copy your work from the document camera or Smartboard. There is an impression of good management, because they are happy to take notes. It is much easier than trying to apply what is being taught.

Not modeling how to pick out the needed data.

Now, describe an effective teaching strategy to address the same topic(s) as the previous question.

(3 responses)

I used foldables, group work, and had the students write and partner answer their problems.

I am not sure of its true effectiveness. But, I am trying to provide less "answers" on the presentation system as we practice the objectives. I have been created short tests on Illuminate to use as review. But, I am using them as guided practice instead of a test. I guide the student on how to complete the problems without giving the answers. They enter their answers on Illuminate and see a score at the end of the review. They are so excited to see green instead of red or orange. I hope that seeing success will help them to try more difficult problems on a real test.

Using a problem solving strategy. There are several.

Louisiana Standard 7.RP.3: Use proportional relationships to solve multistep ratio and percent problems.

Give one example of a math problem that would measure a student's procedural skill and fluency related to 7.RP.3

(3 responses)

$P = \$500$, $r = 2.5\%$, and $t = 3$ years: Find the total interest earned.

Find 45% of \$87.50 percent to decimal, percent of a number, and rounding

$76.25 - 30\% =$

Give one example of a math problem that would measure a student's ability to apply standard 7.RP.3 in a real-world situation.

(3 responses)

Mary borrows \$750 on a 6 year loan. If she has to pay $3\frac{1}{2}\%$ interest per year, what will her total payback to the bank be?

The Companion Guide for 7th grade shows that students should be able to determine the price after a percentage is taken off of a price to find a sale price or determine a price including tax.

Hardy's plant grows rapidly. It grows by 10 cm every 2 years. How much taller will Hardy's plant be in 5 years?

Louisiana Standard 7.EE.2: Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

Give one example of a math problem that would measure a student's conceptual understanding of 7.EE.2.

(3 responses)

Matt buys a \$28 shirt that was marked down 25%. What did he pay for the shirt?

If a bike is on sale 75% off, what percentage will need to be paid?

A shop keeper sold some products. The results of the number of products sold are shown below. Which product had the greatest percentage of its inventory sold?

- a. 40 mango jellies out of the 80 jelly are sold.
- b. 68% of the apple juice is sold.
- c. 0.475 of the cake are sold.

Additional Feedback

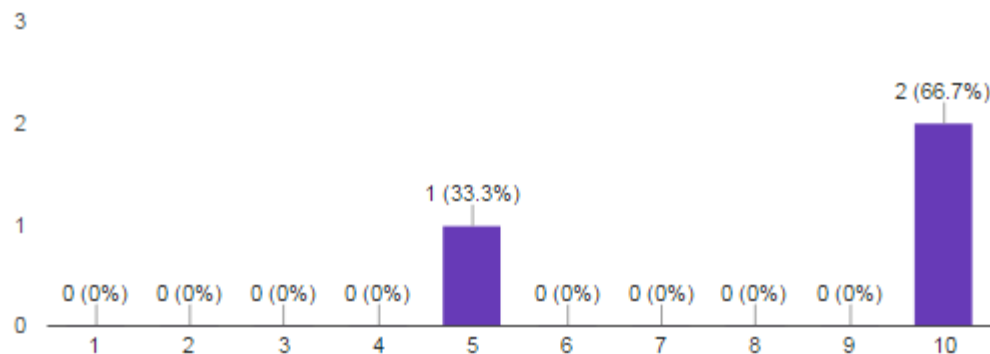
Please provide any other comments you have related to the standards addressed in this Google Form.

(2 responses)

I had to reteach several concepts in chapter 5. When I invented more foldables and creative real-life problems, my students learned the concepts faster because they related to the examples.

I like doing PD this way. I hope these are compiled and shared with all teachers

On the scale below, rate this professional development process? (3 responses)



Thank you for completing this task! You may use the space below to comment on your scale response in the prior question...

(2 responses)

This is great. Hope to have some feedback.

I don't mind doing it if it will help you or others in some way. But, our work load is already heavy.