

Unit 9 Multiplying and Dividing Decimals

TEK:

5.3E solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers

5.3G solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm

Take a close look at Released STAAR questions.

What do you notice about the questions? (*types of questions, charts, diagrams, is one type asked more than the other, etc.*)

*Most of multiplication questions involve money.
More likely to be a word problem (not a model)*

On interim 1, all questions were multiple choice.

Model matching equation or answer choices are the model

Mix estimation in with \times and \div

What academic vocabulary is being tested?

Quotient, product

Divided

Which model represents...

How is the vocabulary being used?
(*definitions, pictures, descriptions, etc.*)

Area model with multiplication and division

Does any vocabulary have roots, prefixes, etc. that transfer to other concepts?

Additional Notes:

Push efficient strategy (multiplication) instead of repeated addition.

Look at the most common incorrect answer.

- **What misconceptions do the students have?**
- **What other mistakes can be anticipated?**
- **What can be added to help avoid mistakes and misconceptions?**

Difficult time understanding when answer is reasonable - estimate before solving so that students can understand if their answer makes sense