

Essential Math 4 Unit 10 Lesson 1: April 9

Learning Target: I can use the area model to divide.

You will explore the use of area models to divide algebraic expressions.

Directions:

- 1. Click through the slides.
- 2. Watch all videos on slides.
- 3. Complete problems and tasks for each slide on a separate sheet of paper.

Bell Work April 9, 2020

Draw an area model for each of the following:

1. 300/10 =

2. 4r/4 =

Lesson:

Watch the video below and follow along on your own paper.

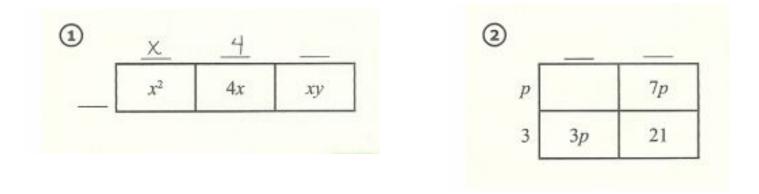
Dividing monomial by binomial using the Area Model

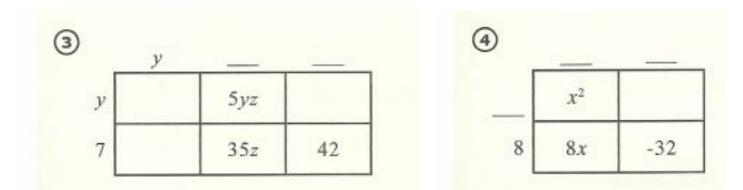
Practice:

Practice: Divide the expression below using an area model:

 $(14x^3 + 10x^2 - 12x)/2x$

Practice Problems: Unit 10 Lesson 2 page 7. Complete problems 1 - 8.





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Write an algebraic statement represented by each area model in two ways: as a multiplication equation and as a division equation.

(5) Multiplication: ___ () =
$$x^2$$
 + ___ + xy
Division: $\frac{x^2 + 4x + xy}{x + 4 + y}$ =

6 Multiplication: () () = $p^2 + 10p + 21$ Division: p+7 =

7 Multiplication: (y + 7)() = $y^2 + 5yz + __y + 35z + 42$ Division: ______ =

(a) Multiplication: () () = $x^2 +$ - 32 Division: ----- =

Answer Key:

Once you have completed the problems, check your answers for page 7 here.

