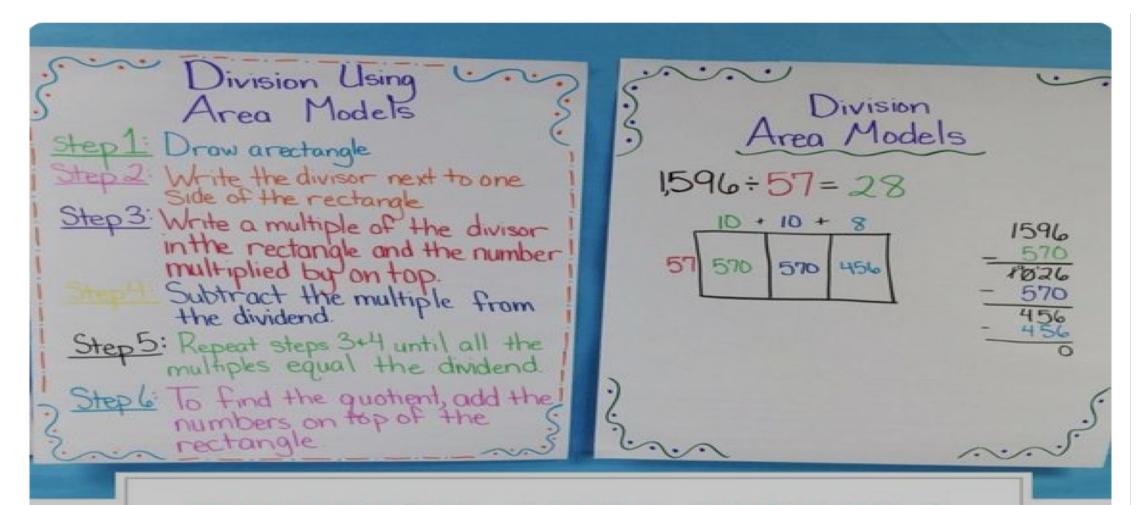
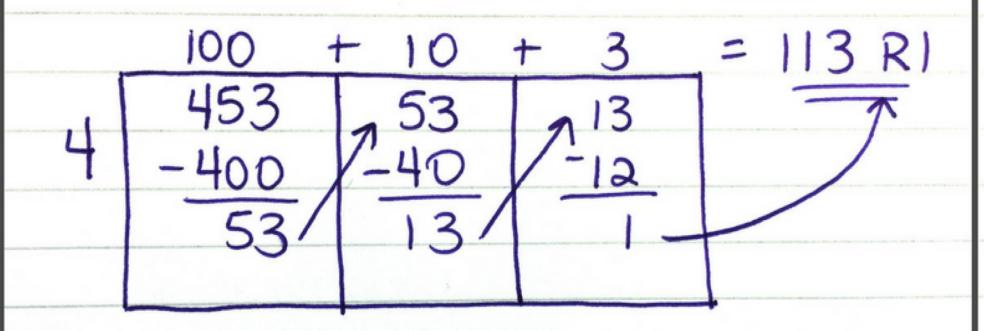
Alternative Strategies

- Area Model
- Box Method
- The "Big 7"
- Partial Quotients
- •Other



DIVISION AREA MODELS



The Box Method for Long Division

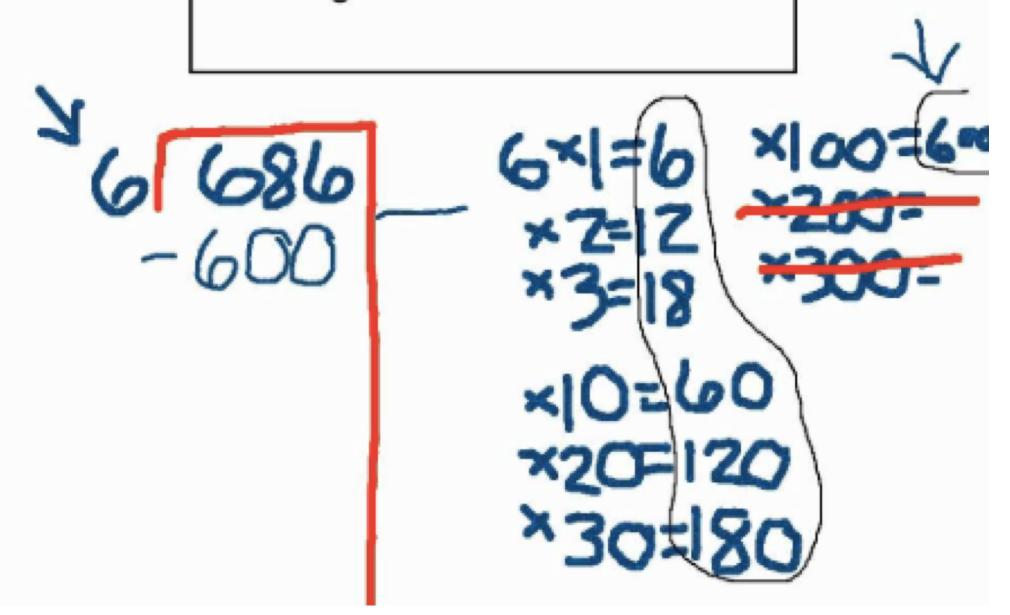
www.ShelleyGrayTeaching.com

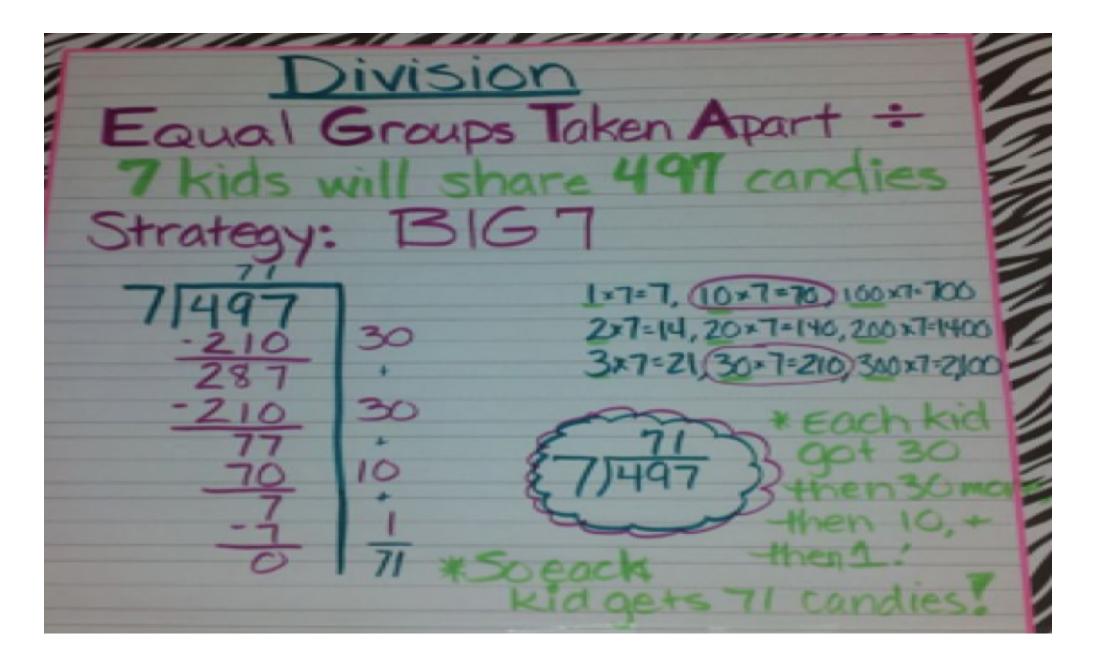
Division - Box Method

Box method steps

- 1) Set up the problem
- Count the digits in the box.
- Create the same number of columns
- Break the numbers into expanded form.
- Write the expanded numbers INSIDE the boxes
- Write the quotient on the left-side of the box.

"Big 7" Division Method

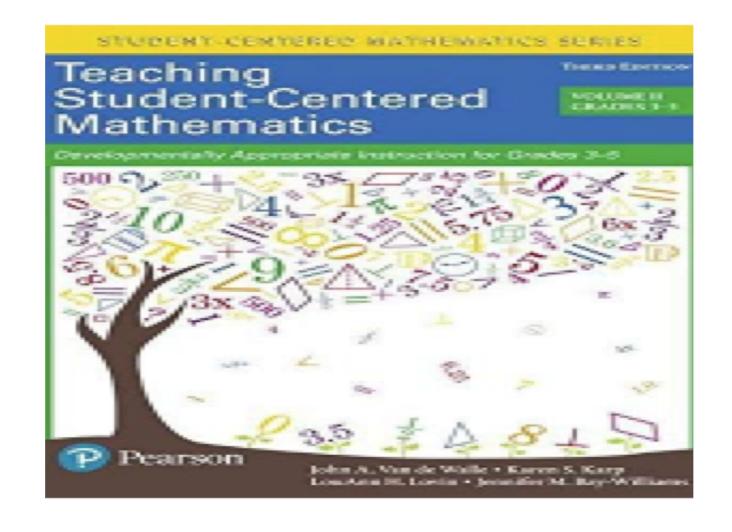




R2

Student-Centered Mathematic S

John Van de Walle Karen Karp LouAnn Lovin Jennifer Bay-Williams



How can we intentionally promote conceptual understanding?

- · Avoid "steps"
- ·Focus on "the why"
- •Embrace multiple methods (even within the same strategy!!)
- ·Use precise language (partial quotients)
- Make connections

Places to make connections...

- Multiplication
- Dimensions
- Area Model for Multiplication
- Partial Products
- Concrete Models

Concrete Models...A Sampler

- Counters
- Base ten blocks
- Tiles
- Linear pieces
- · Base ten area pieces





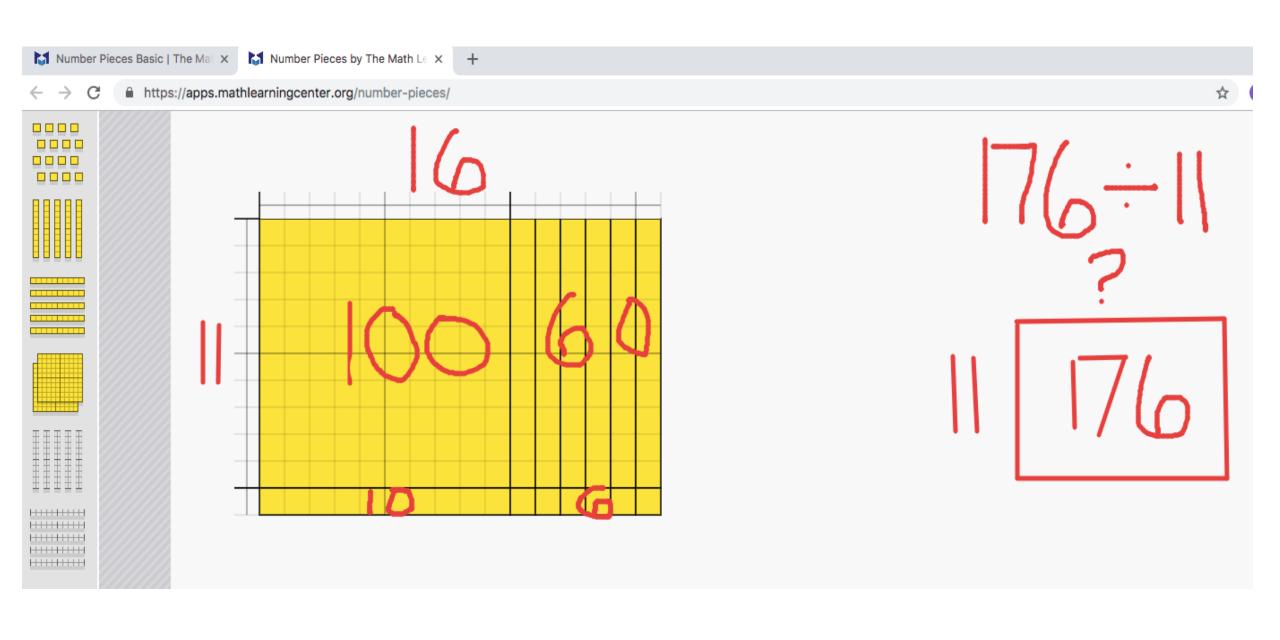






Online Apps

• https://www.mathlearningcenter.org/resources/apps



Reflections

Intentionally Promoting Conceptual Understanding: Is Your Division Model Just Another Algorithm?

Contact Information

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