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## Cognition-Based Assessment Teaching of Multiplication and Division: Building on Students Reasoning

By Michael Battista

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Students should check each division by multiplication. a. 4. In this step, students practice for the first time all the basic steps of long division algorithm: divide, multiply & subtract, drop down the next digit. We use two-digit numbers to keep it simple. Multiply & subtract has to do with finding the remainder, and after finding a remainder, we combine that with the next unit we are getting ready to divide (dropping down the digit). After the previous step has been mastered, students then practice long division with three- and four-digit numbers where they will have to go through the basic steps several times. 1. Divide. 2. Multiply & subtract.

Is it possible for students to understand the division concepts only as the inverse of multiplication? How can I better teach these concepts? Thus, Lirika carefully analyzed the existing curriculum and relevant practices in other countries, including the literature related to math teaching at primary education levels. Research Related to Early Teaching and Learning of Multiplication and Division. Several researchers have studied how young students multiply and divide. Nunes and Bryant (1996) indicated that a general point of view about multiplication and division is that they simply "are inverse arithmetical operations that are taught after addition and subtraction" (p. 144). Help students understand inverse operations between multiplication and division. Allow students additional practice with the inverse operations of multiplication and division with the Math Crossword Puzzle worksheet. Additionally, allow them to practice division with the Division with One-Digit Divisors and Missing Factors exercise. Ask them to complete the word problems in the Multiplication and Division Review worksheet and show their method and equations, or create their own word problems. Assessment. (7 minutes). Write the following numbers on the board: 72, 9, 8. Distribute the index cards and ask students to write a multiplication and division equation using those numbers. This workbook teaches kids all about splitting up numbers. 3rd grade. Math. Cognition-Based Assessment and Teaching will help you will all three tiers in RTI. Battista's approach emphasizes three key components that support students' mathematical sense making and proficiency reasoning with instruction that keeps them moving ever upwards. Also Available: Addition and Subtraction Place Value Fractions ...more. Get A Copy. Start your review of Cognition-Based Assessment & Teaching of Multiplication and Division: Building on Students' Reasoning. Write a review. Michelle added it Aug 08, 2016.