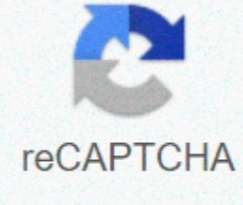




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## Box method division

ShareTweetGooglePinterestMail long division is often considered one of the most challenging topics for teaching. Fortunately, there are strategies we can learn to make multi-digit separation easier to understand and execute. The field method, also called the area model, is one of these strategies. This is an approach based on mental mathematics that will improve the number of feeling understanding. Students solve the equation by subtracting multiples until they come down to 0 or as close as possible to 0. If you plan to teach partial odds in the classroom (which I highly recommend), the Box method is a great way to get started. It uses the same steps as partial odds, but it's organized differently. Let's learn how to perform the Box/Area model method for a long division! Below, I have included both video tutorial and step-by-step instructions. VIDEO INSTRUCTION STEP-BY-STEP INSTRUCTIONS Suppose that we want to solve the equation  $324 \div 2$ . Step 1: First we draw a box. We write the dividend in the box and the divisor on the left side. Step 2: We want to know how many groups of 2 can be made out of 324. We're going to do this in pieces to make it easier. We can start with 100 groups of 2, since we know we have at least as many groups. So we multiply  $100 \times 2$  to make 200, and then take those 200 out of 324. Now we have 124. Step 3: We make another box and carry 124 to it. Now let's take another easy multiplier of 2. How about 50 groups of two? We know we can catch 50 more groups out of two out of 124.  $50 \times 2 = 100$ , so we take 100 out of 124. Now we have 24. Step 4: We make another box and carry 24 to it. We know that 12 groups of 2 make 24, so let's write 12 on top and take 24 out of 24. Now we're going to put 0 on so we know we're done with the equation. Step 5: Now we add the parts from the top of the boxes to find out our coefficient.  $100 + 50 + 12 = 162$ , so we know that  $324 \div 2 = 162$ . Another example (WITH REMNANT) Let's look at another example. In this example, we will solve  $453 \div 4$ . First we wrote our dividend in the box and our divisor on the left side. First we pulled out 100 groups of four. That's 400. We took out 400 out of 453 and stayed with 53. We carry 53 to the next box, and then pull out another 10 groups of 4 to make 40. We took the 40 from the 53 and stayed with 13. We took 13 to the next box, and then pulled out 3 groups of 4 to make 12. We took 12 of the 13 and stayed with 1. We can't get any more groups of four, so the rest of us is one. To find our final coefficient, we add  $100 + 10 + 3 + \text{residue } 1$  to make 113 R1. USEFUL RESOURCES FOR BOX STRATEGY / AREA MODEL FOR DIVISION I would like to help you learn box strategy for long division in the classroom. You can find the following resources that are useful: FREE MINI COURSE here for free multi-digit multi-digit multi-digit course and mini course division. It will only take you about an hour to complete and you'll leave with tons of new ideas, a strategic action plan, free resources, a PD certificate and more! Box strategy / area model task cards These task cards enable students to practice the box/area model method for long separation in different ways. Students will calculate odds, solve division problems, understand missing dividends and divisions, figure out how to effectively solve an equation using the box method, etc. See here Task Cards for field application method or here in a Large Package of Long Divisions Long Division Station Long Division station is a self-standing, student mathematical station for a long division. Students gradually learn different strategies for a long division, with the box method being one of them. One of the greatest advantages of this Math Station is that it allows you to target each student and their unique abilities so that everyone is properly challenged. Check out the long division station here. OR SEE ALL RESOURCES 3, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th 2 ShareTweetGooglePinterEstMail long division is often considered one of the most difficult topics to teach. Fortunately, there are strategies we can learn to make multi-digit separation easier to understand and execute. The field method, also called the area model, is one of these strategies. This is an approach based on mental mathematics that will improve the number of feeling understanding. Students solve the equation by subtracting multiples until they come down to 0 or as close as possible to 0. If you plan to teach partial odds in the classroom (which I highly recommend), the Box method is a great way to get started. It uses the same steps as partial odds, but it's organized differently. Let's learn how to perform the Box/Area model method for a long division! Below, I have included both video tutorial and step-by-step instructions. 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One of the greatest advantages of this Math Station is that it allows you to target each student and their unique abilities so that everyone is properly challenged. Check out the long division station here. OR SEE ALL RESOURCES

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