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Example Video Questions Lesson Share to Google Classroom Example Video Questions Lesson Share to Google Classroom We keep the whole number 6 the same.We turn our division sign into a multiplication sign.We flip the fraction we are dividing by.6 2 / 3 becomes 6 3 / 2 . We multiply the 6 by the numerator on the top.6 3 = 18.We divide 18 by the denominator on the bottom of the fraction.18 2 = 9.6 2 / 3 = 9. Dividing a whole number by a fraction tells us how many of these fractions add together to make the whole number. When teaching division by fractions, it is always best to start with a visual model. We can first look at the division of whole numbers by whole numbers to remember what the division tells us. Here we have 6 2 . This division means, How many twos go into 6? We can see that 2 goes into six 3 times. Therefore 6 2 = 3. We can think of division by fractions in a similar way. Here we have 2 1 / 2 shown with a model. This division means, How many halves go into 2? It can help to teach division of fractions using a visual model. Each whole is made up of two halves. We can count and see that 4 halves make 2 wholes. We can see that the 2 in the whole number can be multiplied by the 2 in the fraction to give us our answer of 4. Whilst visual models are useful for first introducing division by fractions, it is useful to have a quicker, written method. Division is the opposite of multiplication and so, we can turn the division into a multiplication provided that we flip the fraction. We use the three steps of: to divide whole numbers by fractions. We keep 2 as 2. We turn the division into a multiplication. We flip the fraction 1 / 2 to become 2 / 1. We can multiply the whole number by the number on top of the fraction and divide by the number on the bottom of the fraction to work this out. 2 2 = 4 and 4 1 = 4.2 1 / 2 = 4. This means that 4 of the fraction 1 / 2 make up the whole number of 2. Here is another model of dividing whole numbers by fractions. We have 6 2 / 3. This question is asking, How many of the fractions 2 / 3 make 6 wholes? The fraction of two thirds is 2 out of 3. We can see this fraction shown in the model below. every 2 blocks shaded is another two thirds. We can see that there are 9 separate lots of two thirds that can fit inside 6 wholes. 6 2 / 3 = 9 because 2 / 3 goes into six 9 times. We can see that we can use our 3 steps of to divide this whole number by a fraction and get the same answer. We rewrite 6 2 / 3 as 6 3 / 2 . We multiply 6 by the 3 on top and then divide it by the 2 on the bottom to get our answer. 6 3 = 18 and then 18 2 = 9. This is the same answer we got by drawing our visual model but it is more of a methodical process that does not require a drawing. How to Divide a Whole Number by a Fraction To divide a whole number by a fraction: Keep the whole number the same. Change the division sign into a multiplication sign. Flip the fraction you are dividing by. Multiply the whole number by the number on the top of this flipped fraction. Divide this result by the number on the bottom of the flipped fraction. We will use these steps to work out the following example. We have the division of the whole number 5 by the fraction 5 / 6 . The first step is to keep the whole number 5 as 5. The second step is to turn the division sign, , into a multiplication sign, . The third step is to flip the fraction 5 / 6 to 6 / 5 . 5 5 / 6 can be written as 5 6 / 5 . To work this out, we use steps 4 and 5. The fourth step is to multiply the whole number, 5, by the numerator on the top of the flipped fraction, which is 6. 5 6 = 30 The fifth step is to divide this result by the denominator on the bottom of the flipped fraction, which is 5. 30 5 = 6 And so, 5 5 / 6 = 6. Here is another example of dividing whole numbers by fractions. We have 8 1 / 4 . We keep the 8 as 8 and turn the division into a multiplication. We flip the fraction 5 / 6 to become 6 / 5 . 8 1 / 4 can be written as 8 4 / 1 . We multiply the 4 by 8 to get 32. Then we divide 32 by 1, which is still 32. 8 1 / 4 = 32. This means that 32 quarters make 8 wholes in total. Now try our lesson on Translating Shapes where we learn what it means to translate a shape. Translating Shapes Use some of the same strategies to teach multiplication for teaching division in 3rd grade. Teaching division in 3rd grade can result in the case of the quizinas. What do you mean, you ask? You remember4 quizina 36 or 5 quizina 25. How many of us use to say it out loud as we learned how to divide? Instead, get rid of the quizinas by teaching division to 3rd graders as how many groups of 4 are in 36? What else matters with how to teach division to kids? For starters, teaching a solid conceptual understanding of division. Using and solving real-life division problems which relate to students. And curing the quizinas! We also need to be careful we don't omit a certain type of division problem. What do I mean? When third-graders learn to divide whole numbers we emphasize the quotient will be less than the dividend. But what happens when we divide a whole number by a fraction (6 / 7) We get a result greater than the dividend! Teaching division using measurement situations will build a solid foundation for later division of fractions in grade 5 and beyond. I will explain more about measurement division later. Teaching division to 3rd graders has many complexities. In this post, you'll learn critical strategies for teaching division (both partitive and quotative) to kids conceptually while building procedural fluency. No more quizinas or wondering what exactly happens in a division problem. One of the first strategies teachers use to teach multiplication is equal groups. Teachers can also use the same strategy for teaching division to kids. This type of division is referred to as partitive division. While multiplication is an efficient algorithm for finding a total quantity from joining equal groups, division inversely finds the number of groups or the amount in each group. Understanding the context of a story helps students imagine real-life scenarios of how this occurs. For example, most kids like to bake. If you baked 24 cookies, how many friends could you give cookies to if you gave each friend 8 cookies? or 6 cookies? How about 4 cookies? or 12 cookies? Using dividends (the starting number or total quantity) with multiple divisors (the number that divides) allows students to explore how division works. After all, we want to be fair and share the cookies equally! Start with presenting scenarios such as the one above to students. Use the CRA (concrete-representational-abstract) approach for teaching division. Have students work in pairs to find solutions to how many cookies the friends would get if there were 2, 3, 4, 6, 8, or 12 friends. A wonderful companion book showing this process is story When the Doorbell Rang by Pat Hutchins (I have no affiliate links or association with Amazon). Give students math tools such as tiles, counters, beans, or any other object which can be easily grouped. Provide sentence frames such as I had 24 cookies so I gave my friends cookies each (I had 24 cookies so I gave my 3 friends 8 cookies each). Have students make visual representations of their solutions. In other words, go from concrete to representational. Finally, teach the abstract by showing students how to model their solutions with math24 3 = 8; 24 6 = 4; etc. introduce the academic vocabulary of dividend, divisor, quotient and the symbol for division. Students must find the connection to multiplication when learning to divide. Some students might immediately connect when they start making equal groups to divide cookies. But some may not, so we need to make the connection explicit for those students. Since students used arrays to multiply, we can teach division in 3rd grade the same way. In 2nd grade, students lined up objects in rows to use repeated addition to find the total. We can do the same with an array by having students start with a total, then use repeated subtraction to see how many rows (or columns) we can make. This is also a form of partitive division. What if instead of giving out cookies, we gave out brownies? Have students work in pairs to find solutions to divide 36 brownies among 2, 3, 4, 6 and 9 friends. Students should use math tools (tiles, paper squares, beans, counters, etc.) to make rows depending on the divisor (2, 3, 4, 6 or 9). Emphasize to students they are to construct an array of row sows and columns should be lined up properly and evenly. As the students construct the rows or columns, they are conceptually subtracting from the total such as taking 4 more away from the total to make another row/column. Provide sentence frames such as 36 brownies arranged in rows of 6 makes rows (36 brownies arranged in rows of 4 makes 9 rows). Once the array has been built, have students make a visual representation of their solutions. Then, ask students to model the solution with mathematics by creating a division equation. Challenge students to use the missing factor approach by writing an appropriate multiplication sentence. Are there any other considerations we need to know for teaching division to kids? What about resources? Do you have resources to teach division? I have a FREEBIE Im offering if you sign up for my newsletter. It contains 6 pictures you can use to launch a division problem based on equal groups, arrays, or measurement. Based on the Notice and Wonder routine, show the image and have students observe the pictures. Shells a collection of 12 fancy seashellsDogs and cats a collection of 18 dogs or cats (and one mouse not counted)Carton of eggs 18 eggs arranged in rows of 6Rows of crayons 24 crayons arranged in 3 rowsUnwound rope a length of unwound rope (you determine length)Yellow ribbon a length of unwound ribbon (you determine length)A recent addition to my store resources includes a new animated PowerPoint for teaching division to 3rd graders (or review for 4th and 5th graders, intervention students, etc.). The PowerPoint is specifically made to teach dividing through equal groups, arrays, and measurement (number lines). The PowerPoint includes 4 separate lessons which build on each other. What is Division? Teaching Division with Equal Groups Division with Arrays Use Measurement Situations to Teach Division as Subtraction Each lesson has explicit examples through animation. Each lesson includes the following components: concept building with explicit examples with animation mathematical questions to elicit discourse and develop reasoning skills. printables for each lesson coordinate with selected slides with hands-on activities to go from concrete understanding to connecting to multiplication symbols and numbers. Sentence frames to help frame understanding and support English Language Learners Each slide also has sounds to enhance the animation and keep students engaged though it can be turned off by turning down the volume. I hope the strategies presented here to teach division to kids were helpful and eliminated any case of the quizinas. What strategies to do have for teaching division? Share them in the comments! Worksheets for Grade 6Lesson 1 SummaryStudents use visual models such as fraction bars, number lines, and area models to show the quotient of whole numbers and fractions. Students use the models to show the connection between those models and the multiplication of fractions. Students divide a fraction by a whole number.The following diagrams give some examples of dividing a fraction by a whole number. Scroll down the page for more examples and solutions.Lesson 1 ClassroomLesson 1 Opening ExerciseDraw a model of the fraction 5/6. Describe what the fraction means.A fraction shows division of the numerator by the denominator. In other words, a fraction shows a part being divided by a whole. Fractions are numbers; therefore, they can be added, subtracted, multiplied, or divided.Example 1 Maria has 3/4 lb. of trail mix. She needs to share it equally among 6 friends. How much will each friend be given? What is this question asking us to do?How can this question be modeled?Example 2Imagine that you have 2/5 of a cup of frosting that you need to share equally between three desserts. How would we write this as a division question? How can we show that we are dividing two-fifths into three equal parts?Exercises 15For each question below, rewrite the problem as a multiplication question. Then model the answer.1/2 61/3 31/5 43/5 42/3 4Show Step-by-step SolutionsShow Step-by-step Solutions ExercisesFind the value of each of the following.1/453/51/54Solve. Draw a model to support your solution.3/5 pt. of juice is poured into 6 glasses. How much juice is in each glass?Show Step-by-step SolutionsLesson 1 Exit TicketFind the quotient using a model. Problem 1 Write the quotient using a model. Problem 2 Write the quotient using a model. Problem 3 Write the quotient using a model. Problem 4 Write the quotient using a model. Problem 5 Write the quotient using a model. Problem 6 Write the quotient using a model. Problem 7 Write the quotient using a model. Problem 8 Write the quotient using a model. Problem 9 Write the quotient using a model. Problem 10 Write the quotient using a model. 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