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Mrs. B

Partial Quotient

~Step-By-Step Guide~

We Fliping Ma

For Math

How to Divide Using the Partial Quotient Method

The purpose of a 'We Flip for Math' Flip Book, is to provide a struggling student with a step-by-step guide to take them through the process they are struggling with.

I have various flip books available in my classroom (and my TpT Store), but only after I have taught the concept and we have practiced it a number of times. The complexity of some skills can be quite challenging for many students. Being able to remember all the steps can simply become too overwhelming. A flip-book can help 'walk' children through a multiple step mathematical process. In addition, I have found flip-books can be helpful when sending homework home. I have heard from many parents how much they appreciated having this valuable resource available when working with their child.

This packet contains a 'three examples - practice' flip-book. The 1st example provides a step-by-step guide for dividing a 3-digit number by a 1-digit number (no remainder). The 2nd example shows how to divide a 4-digit number by a 1-digit number (with remainder). The final example demonstrates how to divide a 3-digit number by a 2-digit number (with remainder). The final section provides several practice problems along with an answer key. In addition, I included some ready-made index tabs for marking each of the four sections.

To assemble each Flip Book simply run single-sided copies of all pages. Laminate for durability. Cut on the dotted line. Put the pages in sequential order-cover should be on top. Bind or staple (binding works best) across the top! (Pictures of assembly on Proceeding Page)

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How to Assemble 'We Flip for Math'

Be sure to laminate for durability!

Attach a library checkout pocket/card on the back of the book. Childern can 'check out' book to use with homework.









Understanding Partial Quotient

The partial quotient method for dividing, allows the dividend to be broken into smaller amounts. Each time the dividend is decreased the problem becomes more manageable.

To be successful with this method, you must have a good understanding of working with multiples of 10.

Solve the following division problem.

456 ÷ 3

First, write the problem in long division format.



Step 1: Identify

Ask:

Which digit has the largest value in the dividend?

4 has the greatest value. . 4 represents 4 hundreds or 400.





Final Answer 456 ÷ 3 = 152

Solve the following division problem.

7,223 : 6

First, write the problem in long division format.



Step 1: Identify

Ask:

Which digit has the largest value in the dividend?

7 has the greatest value. 7 represents 7 thousands or 7000.



Step 2: Multiply & Subtract

Since 7 is in the thousands's place, start with multiples of 1000. Ask will 6 go into 7223, 1000 times? Yes, 6 x 1000 = 6000. Will 6 go into 7223 two thousand times? No, 6 x 2000 = 12,000. 12,000 is too big, so we can easily say 6 goes into 7223, one thousand times. So, multiply 6 x 1000 and...



Step 3: Multiply & Subtract

After subtracting, we are left with 1223. Think of this as our new 'smaller' dividend. Focusing on multiples of 100, ask will 6 go into 1200, 100 times, 200 times, 300 times?

6 goes into 1223, 200 times without going over. So, multiply 6 x 200 and...



Step 5: Multiply & Subtract

Our 'remaining dividend' (23) is small enough to easily see that 6 goes into 23, three times.

So multiply 6 x 3 and...



Step 4: Multiply & Subtract

After subtracting, we are left with 23. Think of this as our new 'smaller' dividend. Focusing on multiples of 10, ask will 6 go into 23, ten times? No, 6 x 10 is too big.

So...write a 0 under 200.



Step 6: Check

After working all the way across the dividend from left to right, the division problem is finished.

If the final difference is not zero, make sure it is a number less than the divisor. This difference is the remainder.









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Again, thank you for your purchase! I look forward to hearing from you in the future.

Wishing You the Best,

Mrs. B