

Hey there, young mathematicians! ☐ Today, we're going to go on a fun adventure to learn about long division. Think of long division like a treasure map where we're trying to find the treasure—a solution to a tricky division problem! Are you excited? Let's start our journey step by step!

First things first, you need to understand what long division is. Imagine you have 36 candies (yum!) and you want to share them evenly among 4 friends (how generous!). Long division helps us figure out how many candies each friend gets. In this case, you're asking, 'How many times does 4 go into 36?' So, we'll write this problem in a special way with a little house for the numbers: 36 inside the house (the dividend) and 4 outside the house (the divisor).

Now, let's start dividing! The first step is to see how many times the number outside (4) can fit into the first digit of the number inside (3). Hmm, 4 can't fit into 3, so we look at the first two digits together, which is 36. Now, we ask, 'How many times does 4 fit into 36?' You might know that 4 goes into 36 exactly 9 times. So write down the 9 on top of the house.

Next, we multiply! Let's take that 9 and multiply it by the 4 (the number outside the house). What do we get? That's right, 36! Now, we put that 36 below the big 36 we started with and draw a line under it. Then, we subtract 36 from 36, which gives us 0. Hooray! We've just found out that each of your friends would get 9 candies and no candies are left over. Isn't that awesome? ☐

Lastly, let's remember that long division can also be applied to bigger numbers and even those tricky remainders. But don't worry, if you practice and keep your treasure map handy (your long division steps), you'll get the hang of it in no time. Divide, Multiply, Subtract, Bring down, and Repeat (or DMSBR, we can call it!). So gather your math friends, practice together, and turn those division problems into fun adventures! Happy dividing!