

An introduction to short division

This week we are going to carry on learning about division using a brand new method. But before we start let's recap...

On a piece of paper create a mind map or list and think about:

What is division? What does it mean to divide something?

What other words or phrases can you think of that mean to divide?

What can we use to help us when we divide numbers?



Bus stop method!

Today we are going to explore a new method of short division called the Bus Stop method! Bus stop method helps us to work out longer, more complicated division questions rather than trying to work it out in our heads.

Let's get started!

So now let's take the question $57 \div 3$. It would take us quite a long time to work this out in our heads so instead we're going to work it out using the Bus stop method by following these simple steps.

Step 1: To do this we need to put the number we are dividing in the division box. In this case it's 57.

$$\begin{array}{|l} 57 \end{array}$$

Step 2: The number we are dividing by goes to the left of the division box.

$$3 \begin{array}{|l} 57 \end{array}$$

Step 3: First we need to look at the digit in the tens column

How many times does 3 go into 5?

It goes into 5 once, and has a remainder of 2.

So, we put the 1 above the ten's column

Now we need to carry that remainder of 2 over to the 7. Which makes that number 27

$$1 \begin{array}{|l} 3 \ 5 \ 27 \end{array}$$

Remember that the 5 in 57 represents 5 tens. So the 1 we have written down represents 1 ten in our final answer.

Step 4: Now let's look at our ones column.

$$\begin{array}{r} 19 \\ 3 \overline{) 57} \end{array}$$

How many times does 3 go into 27?

It goes into 27 nine times and has no remainders. So we put our 9 above the ones column.

So our answer to $57 \div 3$ is 19

The following video goes through lots of questions using bus stop method. Watch the video and answer the questions. Make sure you've got a pen and paper ready! <https://www.youtube.com/watch?v=Dv8BOsG8cPc>



Now you're all experts on bus stop method have a go at some of these questions. You will need to draw your own bus stop very neatly and remember to line up your Tens and Ones correctly.



<u>Fantastic questions</u>	<u>Amazing questions</u>	<u>Spectacular questions</u>
$33 \div 3 =$	$42 \div 3 =$	$72 \div 6 =$
$24 \div 2 =$	$27 \div 3 =$	$88 \div 4 =$
$34 \div 2 =$	$65 \div 5 =$	$48 \div 4 =$
$28 \div 2 =$	$48 \div 2 =$	$56 \div 4 =$
$44 \div 2 =$	$66 \div 6 =$	$99 \div 9 =$
$55 \div 5 =$	$54 \div 3 =$	$96 \div 2 =$

Answers:

Fantastic:

11, 12, 17, 14, 22, 11.

Amazing:

14, 9, 13, 24, 11, 18

Spectacular:

12, 22, 12, 14, 11, 48