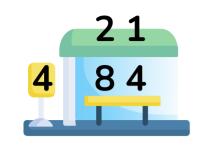
Short Division

Division is the calculation we use to **share** an amount into **equal groups**.

That's me!

The division symbol looks like this: ÷

The easiest written method for division is called **short division**, also called the **bus stop method**.



In this example, we are dividing 84 by 4.

The answer is **21**, which we can see at the top of our bus stop!

(§) Method

How can we solve a problem with **short division**?

Start by writing the number we are dividing inside the 'bus stop' and the number we are dividing it by outside!

5 8 5

Here is an example with **85** ÷ **5**.

2 We start by dividing the **first digit** inside the bus stop.

How many times does 5 go into 8? In other words, what is $8 \div 5$?

5 goes into 8 only **once** so we write a **1** on top of the 'bus stop', above the 8.

When we divide 8 by 5, we get a remainder of 3. We can exchange this remainder (3 tens) for 30 ones. We show this exchange with a little 3.

1 5 8³5

Then, we move on to the next digit to the right.

The 3 tens we exchanged are added on to the 5, so our next step is to figure out how many times 5 goes into 35. Or, $35 \div 5$.

We write a 7 over the line above the 5.

5 8³5

We have reached the answer! $85 \div 5 = 17$

(Example Question

Paola wants to divide 72 sweets into 3 equal amounts to share between herself and her 2 best friends.



2

3

A 20

B 24

We know that Paola wants to share 72 sweets into 3 equal groups.

C 26

D 29

To find the answer to this question, we need to **divide 72 by 3**.

Let's use short division! We start with the first digit, 7.

We write a **2** over the line above the 7

 $7 \div 3 = 2$, with 1 remaining

and we **exchange** the remainder with a **little 1**.

We move on to the next digit to the right.

3 7¹2

The **ten we exchanged** becomes 10 ones and is added to the 2, which leaves **12**.

 $\frac{24}{37^{1}2}$

Each friend will get **24** sweets! Answer **B** is correct.

 $12 \div 3 = 4$, so we write a 4 over the line.