

Written Division 'Bus Stop' Method

$$594 \div 7$$

We set the sum out like this:

$$7 \overline{) 594}$$

Step 1

How many 7s will go into 5?

$$7 \overline{) 594}$$

Answer: 0 remainder 5

Step 2

Carry the remainder 5 into the next column
How many 7s will go into 59?

$$\begin{array}{r} 0 \\ \hline 7 \overline{) 5594} \end{array}$$

Answer: 8 remainder 3

Step 3

Carry the remainder 3 into the next column
How many 7s will go into 34?

$$\begin{array}{r} 0 \quad 8 \\ \hline 7 \overline{) 5 \quad 5 \quad 9 \quad 3 \quad 4} \end{array}$$

Answer: 4 remainder 6

Step 4

The answer is 84 remainder 6

$$\begin{array}{r} 0 \quad 8 \quad 4 \quad r6 \\ \hline 7 \overline{) 5 \quad 5 \quad 9 \quad 3 \quad 4} \end{array}$$

Which can now be written as $84\frac{6}{7}$

$$8093 \div 17$$

Now we will look at dividing by larger numbers.

$$17 \overline{) 8093}$$

Step 1

We encourage pupils to jot down the first 5 numbers of the 17 times table.

How many 17s go into 8?

$$\begin{array}{r} 17 \overline{) 8093} \\ 17 \\ 34 \\ 51 \\ 68 \\ 85 \end{array}$$

Answer: 0 remainder 8

Step 2

How many 17s go into 80?

$$\begin{array}{r} 0 \\ \hline 17 \overline{) 8093} \\ \end{array}$$

17
34
51
68
85

Answer: Closest we can get is $4 \times 17 = 68$
so 4 remainder 12

Step 5

The answer is 476 remainder 1

$$\begin{array}{r} \overline{) 8093} \\ \\ \\ \\ \\ \end{array}$$

0 4 7 6^{r1}

- 17
- 34
- 51
- 68
- 85
- 102
- 119

Which can now be written as $476 \frac{1}{17}$