

How to multiply a 1-digit number by 100

When I multiply by 100, it is important that I remember the numbers move two places to the left!

For example:

$$100 \times 3 = 300$$

If I put my 3 in the place value grid, I know that 3 goes in the ones column.

Hundreds	Tens	Ones
		3

When I multiply this number by 100, the number 3 moves two spaces to the left.

Hundreds	Tens	Ones
3	0	0

I can't leave these columns empty so I put space holders (0) in.

The value of the 3 has changed. It is now in the hundreds column. So my answer is 300.

How to multiply a 2-digit number by 100

When I multiply by 100, it is important that I remember the numbers move two places to the left!

For example;

$$100 \times 23 = 2300$$

If I put my 23 in the place value grid, I know that 2 goes in the tens column and 3 goes in the ones column.

Thousands	Hundreds	Tens	Ones
		2	3

When I multiply this number by 100, the numbers move two spaces to the left.

Thousands	Hundreds	Tens	Ones
2	3	0	0

I can't leave these columns empty so I put space holders (0) in.

The value of 20 has changed. It is now 2000. The value of 3 has changed. It is now 300.

The answer is 2300

How to divide a 3-digit number by 100

When I divide by 100, it is important that I remember the numbers move two places to the right!

For example:

$$300 \div 100 = 3$$

If I put my 3 in the place value grid, I know that 3 goes in the hundreds column and 0 goes in the tens and the ones column.

Hundreds	Tens	Ones
3	0	0

When I divide this number by 10, the number 3 moves two spaces to the right.

Hundreds	Tens	Ones
		3

The value of the 300 has changed. It is now in the ones column. So my answer is 3.

How to divide a 4-digit number by 100

When I divide by 100, it is important that I remember the numbers move two places to the right!

For example;

$$2300 \div 100 = 23$$

If I put my 2300 in the place value grid, I know that 2 goes in the thousands column, 3 goes in the hundreds column and 0 goes in the tens and ones columns.

Thousands	Hundreds	Tens	Ones
2	3	0	0

When I divide this number by 100, the numbers move two spaces to the right.

Thousands	Hundreds	Tens	Ones
		2	3

The value of 2000 has changed. It is now 20. The value of 300 has changed. It is now 3.

The answer is 23