

How to multiply a 1-digit number by 10

When I multiply by 10, it is important that I remember the numbers move one place to the left!

For example:

$$10 \times 3 = 30$$

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 10, the number 3 moves one space to the left.

Hundreds	Tens	Ones
	3	0

I can't leave this column empty so I put a space holder (0) in.

The value of the 3 has changed. It is now in the tens column. So my answer is 30.

How to multiply a 2-digit number by 10

When I multiply by 10, it is important that I remember the numbers move one place to the left!

For example;

$$10 \times 23 = 230$$

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.

Hundreds	Tens	Ones
	2	3

When I multiply this number by 10, the numbers move one space to the left.

Hundreds	Tens	Ones
2	3	0

I can't leave this column empty so I put a space holder (0) in.

The value of 20 has changed. It is now 200. The value of 3 has changed. It is now 30.

The answer is 230

How to divide a 2-digit number by 10

When I divide by 10, it is important that I remember the numbers move one place to the right!

For example:

$$30 \div 10 = 3$$

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

Hundreds	Tens	Ones
	3	0

When I divide this number by 10, the number 3 moves one space to the right.

Hundreds	Tens	Ones
		3

The value of the 30 has changed. It is now in the ones column. So my answer is 3.

How to divide a 3-digit number by 10

When I divide by 10, it is important that I remember the numbers move one place to the right!

For example;

$$230 \div 10 = 23$$

If I put my 230 in the place value grid, I know that 2 goes in the hundreds column, 3 goes in the tens column and 0 goes in the ones column.

Hundreds	Tens	Ones
2	3	0

When I divide this number by 10, the numbers move one space to the right.

Hundreds	Tens	Ones
	2	3

The value of 200 has changed. It is now 20. The value of 30 has changed. It is now 3.

The answer is 23