

I can multiply
by 10

Ten thousand	thousands	Hundreds	Tens	Units	d. p.	Tenths	Hundredths
10.00	1,000's	100's	10's	1's		1/10's	1/100's
0's	s						

Left



When we multiply by 10 all the numbers drive one column to the left.
They each get ten times bigger.

The decimal point doesn't move!

Ten thousand	thousands	Hundreds	Tens	Units	d. p.	Tenths	Hundredths
10,000's	1,000's	100's	10's	1's	.	1/10's	1/100's

I can multiply by 10

Left



$$25 \times 10 = 250$$

When we multiply by 10 all the numbers drive one column to the left. They each get ten times bigger.

The decimal point doesn't move! REMEMBER YOUR ZERO AS A PLACE HOLDER

I can multiply
by 100

thousands	Hundreds	Tens	Units	d	Tenths	Hundredths	Thousandths
1,000's	100's	10's	1's	.	1/10's	1/100's	1/1000's
s				p			
				.			

Left



When we multiply by 100 all the numbers drive two columns to the left.
They each get 100 times bigger.

The decimal point doesn't move!

thousands	Hundreds	Tens	Units	d. p.	Tenths	Hundredths	Thousandths
1,000's	100's	10's	1's		1/10's	1/100's	1/1000's

Left



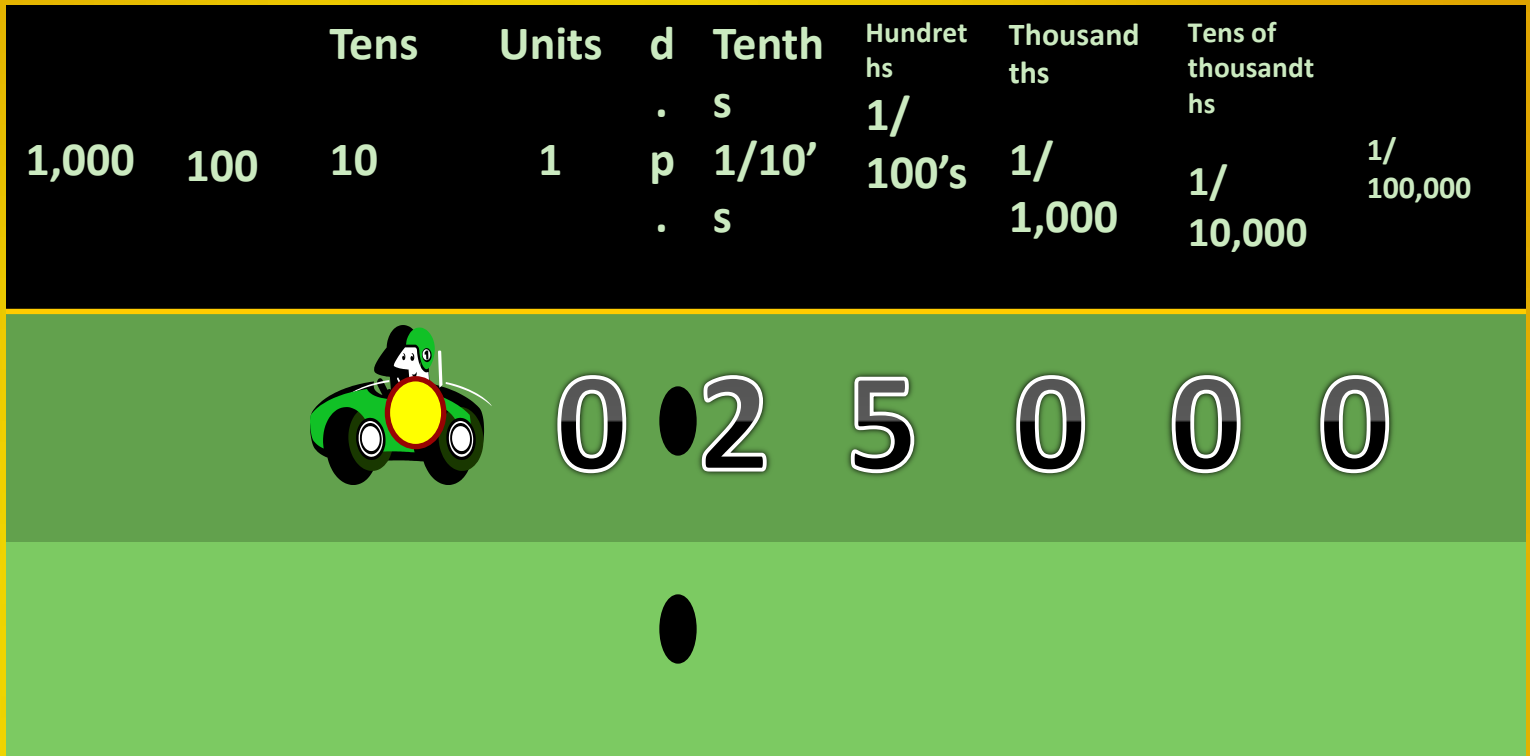
$$25 \times 100 = 2,500$$

When we multiply by 100 all the numbers drive two columns to the left. They each get 100 times bigger.

The decimal point doesn't move!

I can multiply by 100

Left



When we multiply by 10 all the numbers drive one column to the left. They each get ten times bigger.

The decimal point doesn't move!

Left

		Tens	Units	Decimal	Tenth	Hundredths	Thousandths	Tens of thousands	
1,000	100	10	1	.	1/10'	1/100's	1/1,000	1/10,000	1/100,000

I can multiply a number containing decimal places by 10



$$0.25 \times 10 = 2.5$$

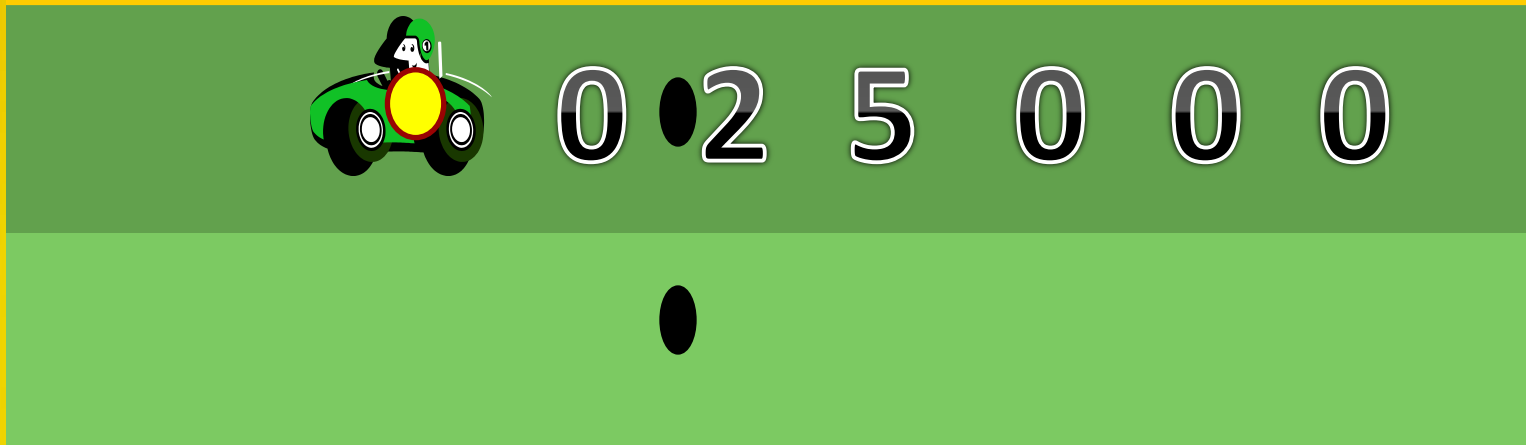
When we multiply by 10 all the numbers drive one column to the left. They each get ten times bigger.

The decimal point doesn't move!

Left

		Tens	Units	Decimal	Tenth	Hundredths	Thousandths	Tens of thousands	
1,000	100	10	1	.	1/10'	1/100's	1/1,000	1/10,000	1/100,000

I can multiply a number containing decimal places by 100



When we multiply by 100 all the numbers drive two columns to the left. They each get 100 times bigger.

The decimal point doesn't move!

Left

		Tens	Units	1	Tenth	Hundredths	Thousandths	Tens of thousandths	
1,000	100	10	1	.	1/10'	1/100's	1/1,000	1/10,000	1/100,000

I can multiply a number containing decimal places by 100



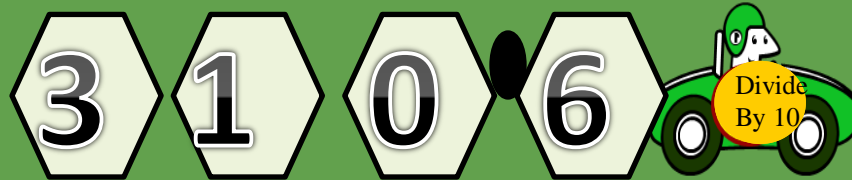
$$0.25 \times 100 = 25.0$$

When we multiply by 100 all the numbers drive two columns to the left. They each get 100 times bigger.

The decimal point doesn't move!

right

Thousand	Hundred	Ten	Unit	d.p.	Tenth	Hundr			
			s		s	eths			
1000	100	10	1's		1/10'	1/100	1/1000	1/10000	1/100000
					s				



When we divide by 10 all the numbers drive one column to the right. They each get 10 times smaller.

The decimal point doesn't move!

Thousand	Hundred	Ten	Unit	d.p.	Tenth	Hundr eths			
1000	100	10	s 1's		s 1/10'	1/100	1/1000	1/10000	1/100000



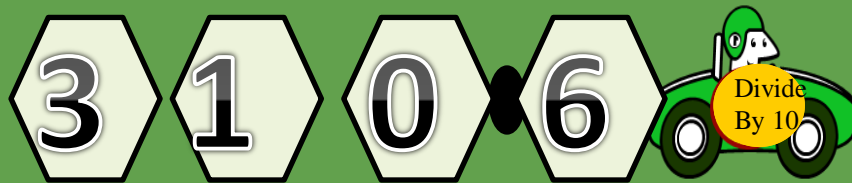
$$310.6 \text{ divided by } 10 = 31.06$$

When we divide by 10 all the numbers drive one column to the right.
They each get 10 times smaller.

The decimal point doesn't move!

right

Thousand	Hundred	Ten	Unit	d.p.	Tenth	Hundr			
			s		s	eths			
1000	100	10	1's		1/10's	1/100	1/1000	1/10000	1/100000

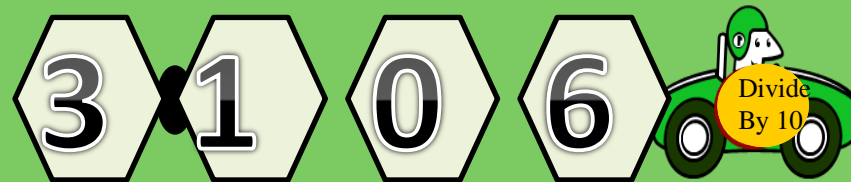
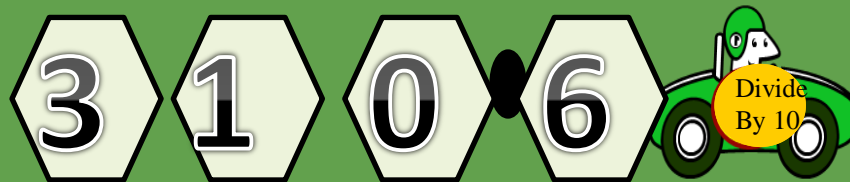


When we divide by 100 all the numbers drive two columns to the right. They each get 100 times smaller.

The decimal point doesn't move!

right

Thousand	Hundred	Ten	Unit	d.p.	Tenth	Hundr			
			s		s	eths			
1000	100	10	1's		1/10'	1/100	1/1000	1/10000	1/100000
					s				



$$310.6 \text{ divided by } 100 = 3.106$$

When we divide by 100 all the numbers drive two columns to the right. They each get 100 times smaller.

The decimal point doesn't move!

