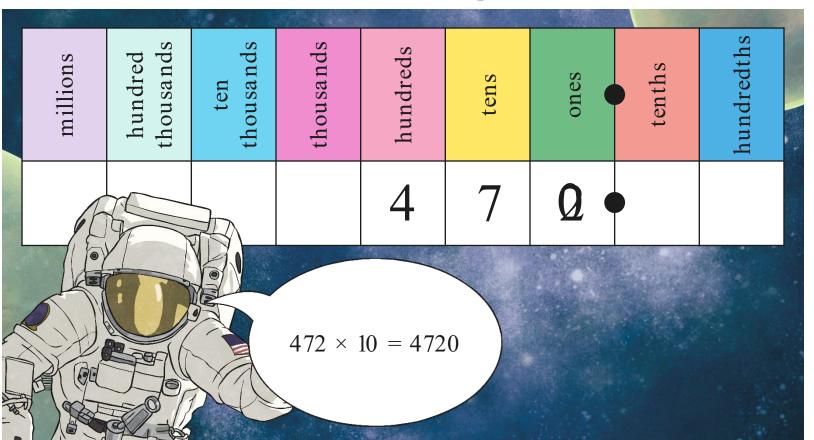
Multiplying and Dividing by 10, 100 and 1000

When we multiply by 10, the number gets 10 times bigger. The whole number moves one place to the left.



When we multiply by 10, the number gets 10 times bigger.

The whole number moves one place to the left.

	IS	S	S	S				hs
millions	hundred	thousand	thousand	hundreds	tens	ones	tenths	hundredth
	, t	7	7					h
				4	7	Q		
0				• When y	ve multinl	y by 10 th	ne number	gets 10

 $472 \times 10 = 4720$

- When we multiply by 10, the number gets 10 times bigger.
- The whole number moves one place to the left.
- We can't have an empty space before the decimal point.
- So we put a zero in here as a place holder. There are 0 ones.

When we multiply by 10, the number gets 10 times bigger. The whole number moves one place to the left.

100	millions	hundred	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
				5	3	2	Q •		
					5322 ×	< 10 = 53	3 220		

When we multiply by 10, the number gets 10 times bigger. The whole number moves one place to the left.

millions	hundred	thousands	thousands	hundreds	tens	ones	tenths	hundredths
			5	3	2	0		
times	s bigger.		the numb			3		735
decin So w	nal point.	ro in here	space befor as a place			5322 ×	10 = 53	220

- 35 x 10 =
- 150 x 10 =



millions	hundred	thousands	thousands	hundreds	tens	ones	tenths	hundredths
			6	4	Q	0		
	64	120 × 10	0 = 642	0000				



millions	hundred thousands	thousands	thousands	hundreds	tens	ones	tenths	hundredths
			6	4	Q	0		

 $6420 \times 100 = 642\ 000$

- When we multiply by 100, what happens?
- The number gets 100 times bigger.
- How many places to the left do you think each digit needs to move now?
- 2 places because we are making the number 10 times bigger, then 10 times bigger again.
- What do you think we do in the highlighted squares?
- We can't have empty spaces before the decimal point.
- So we put 2 zeros in here as place holders.
- There are 0 ones and 0 tens.

- 21 x 100 =
- 1600 x 100 =



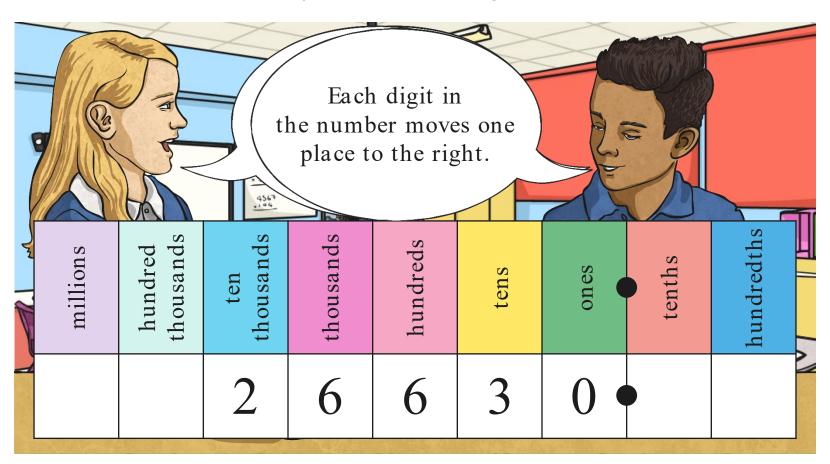
 millions	hundred thousands	thousands	thousands .	hundreds	tens	ones	tenths	hundredths
			3	6	Q	8		
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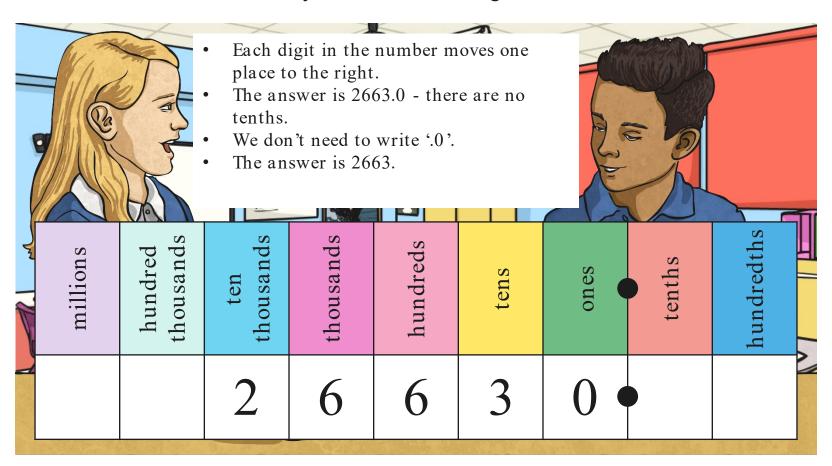
:	4149	•	N. (580) (A	•			•		: Resident
	<u>8</u>	hundred	ten	thousands	hundreds	tens	ones	tenths	hundredths
				3	6	Q	8		
	1 1	nappens The num How ma each dig	e multip? ber gets ny place it needs 10 × 10	1000 ties to the	mes big	ger.	k		

- 35 x 1000 =
- 1800 x 1000 =

When we divide by 10, the number gets 10 times smaller.

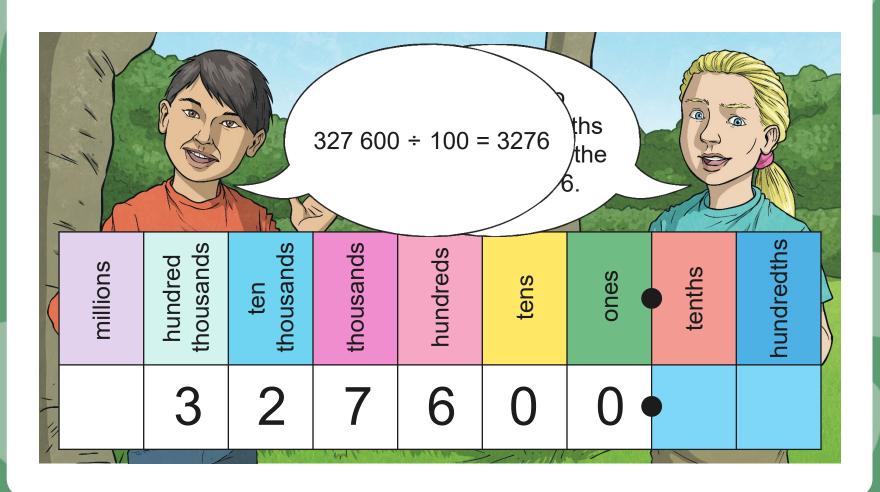


When we divide by 10, the number gets 10 times smaller.



- $210 \div 10 =$
- $18,000 \div 10 =$







- When we divide by 100, what happens?
- The number gets 100 times smaller.
- How many places to the right do you think each digit needs to move now?
- 2 places.

We make the number 10 times smaller, then 10 times smaller again. What do you think happens in the highlighted squares?

There are no tenths or hundredths in this number, so the answer is 3276.

 $327600 \div 100 = 3276$

	millions	hundred	thousands	thousands	hundreds	tens	ones	tenths	hundredths
(1)		ന	2	7	6	0	0		

- $3100 \div 100 =$
- $18, 100 \div 100 =$







- When we divide by 1000, what happens?
- The number gets 1000 times smaller.

How many places to the right do you think each digit needs to move now?

• 3 places: 10÷ 10 ÷ 10

Can you work with a partner to answer these?

Write your answers on your whiteboard.



539 000/ 1000 **=539**

6031 000 1000 =6031

- 18, 000 ÷ 1000 =
- $18,000 \div 1000 =$

Combined – left or right?

- 150 x 100 =
- $510 \div 10 =$
- $850 \times 1000 =$
- $18,000 \div 100 =$
- $15 \times 1000 =$
- $\bullet 2500 \div 10 =$
- $\bullet 8500 \div 100 =$
- $\bullet 860 \times 100 =$

Spot the Expert



Which of these children got the most correct answers?

100		Sandeep	Felicity	Stefan
on the	a) 348 000/ 100 =	348 X	3480	34 800 X
NET .	b) 64 200 π 100 =	642 X	6 420 000	/642 000 X
New side of the propagation of the formation to whether have addent, read, can just not formation of the propagation of the pro	c) 25 300/ 10 =	2530	253 000 X	253 X
take mini Se complete for complete for complete	d) $540 \pi 1000 =$	540 000	5400 X	5 400 00 X
	e) 5 280 000/ 1000	= 5200 X	5280 🗸	528 000 X
	Number of Correct Answers	2/5	3/5	0/5
/-	The state of the s			AMA

