


Multiplying by 10

When we multiply by 10 our number needs to get 10 times bigger. We can use a place value chart to show this. First you need to put in your starting number, then you can make each digit 10 times bigger by moving them **ONE** place to the left. You must then put a 0 in the ones column as a place holder.

$$57 \times 10$$


Th	H	T	O
		5	7
			
	5	7	0

$$57 \times 10 = 570$$

Multiplying by 100

When we multiply by 100 our number needs to get 100 times bigger. We can use a place value chart to show this. First you need to put in your starting number, then you can make each digit 100 times bigger by moving them TWO places to the left because multiplying by 100 is the same as doing $\times 10 \times 10$ ($10 \times 10 = 100$). You must then put a 0 in the ones and the tens columns as a place holders.

$$89 \times 100$$

Th	H	T	O
		8	9
			
8	9	0	0

$$89 \times 100 = 8900$$