

Multiplying by 10, 100 and 1000

Place Value Grid

M tTh hTh Th H T U . t h

Hundreds	Tens	Units
	2	3
2	3	0

$23 \times 10 = 230$

The decimal point DOES NOT MOVE!!!

To multiply a number by 10, we move the digits one place to the left, one place for each zero. We put in a place holder of zero if needed. The number becomes 10 times bigger.

To multiply a number by 100, we move the digits two places to the left one place for each zero. We put in place holders of zero if needed. The number becomes 100 times bigger.

To multiply a number by 1000, we move the digits one place to the left, one place for each zero. We put in place holders of zero if needed. The number becomes 1000 times bigger.

(To divide, we move the other direction, so that the answer is smaller.)