Multiplying and dividing by 10,100 and 1000

When we multiply, we move to the left. The zeros indicate how many places to move.

Use place value to work out how to multiply by 10.

$$6.74 \times 10 = ?$$

If you multiply a number by 10, the digits move one place value to the left.

Hundreds	Tens	Ones	Tenths	Hundredths
		6 .	7	4

Hundreds	Tens	Ones	Tenths	Hundredths
	6	7 .	4	

$$6.74 \times 10 = 67.4$$

Use place value to work out how to multiply by 100.

$$6.74 \times 100 = ?$$

Hundreds	Tens	Ones	Tenths	Hundredths
		6 .	7	4

Hundreds	Tens	Ones	Tenths	Hundredths
6	7	4 .		

If you multiply a number by 100, the digits move two places to the left.

$$6.74 \times 100 = 674$$

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