



Eleven Plus Maths How To Do - Multiplication of Decimals

When a number is multiplied by 10 it gets ten times bigger.

$$\begin{array}{r} \text{HTU. + h th} \\ 3. \quad \times 10 \\ 30. \end{array} \qquad \begin{array}{r} \text{HTU. + h th} \\ 16. \quad \times 10 \\ 160. \end{array}$$

When multiplying by a decimal put the decimal point down. The decimal point does not move.

$$\begin{array}{r} \text{HTU. + h th} \\ 2.6 \quad \times 10 \\ 26.0 \end{array} \qquad \begin{array}{r} \text{HTU. + h th} \\ 13. \quad \times 10 \\ 130. \end{array}$$

When you multiply by ten the decimal point does not move but the figures move one place to the left as they get ten times bigger.

3 units times 10 becomes 30
 0.6 times 10 becomes 6.0

When you multiply by 100 the figures become 100 times bigger. The decimal point does not move.
 The figures move 2 places to the left.

Example:

$$\begin{array}{r} \text{HTU. + h th} \\ 6.0 \quad \times 100 \\ 600. \end{array} \qquad \begin{array}{r} \text{Th HTU. + h th} \\ 600.0 \end{array}$$

$$\begin{array}{r} 0.5 \quad \times 10 \\ 5.0 \end{array}$$

$$\begin{array}{r} 20.3 \quad \times 100 \\ 2030. \end{array}$$