

Multiplication grid

This ITP allows you to set up a multiplication grid to demonstrate the grid method of multiplication for whole and decimal numbers. The grid size can be changed to accommodate different calculations. The calculation is defined at the bottom of the screen by changing the digits using the hidden pointers. Decimal points can be inserted by clicking between two adjacent digits. The numbers are partitioned and the respective components in the calculation revealed and hidden by clicking on the ? in the cell. These values appear in the addition calculation and the answer confirmed clicking on the equals sign below the plus sign. The numbers around the grid, and in the calculation, can be hidden and revealed. To do this, hover over and clicking on the rectangular strips, at the right hand side of, or below, each number.

The ITP can be used to develop children's understanding of the grid method of multiplication for whole and decimal numbers, and their ability to apply their knowledge of number facts and to deduce and reason, when finding missing component numbers.

click between digits to insert or remove a decimal point

click the hidden buttons to increase or decrease this digit

click to hide or show the number above this button

x	2	0.1	
10	?	?	click to show or hide the product in this square $\begin{array}{r} 10 \\ + 0.5 \\ \hline 31.5 \end{array}$
5	10	0.5	

click to show the solution

click to hide or show the number to the left of this button

- Select a tens x hundreds grid
- Select a tens x tens grid
- Select a units x hundreds grid
- Select a units x tens grid