

Moving digits

This ITP allows you to demonstrate the effect of multiplying and dividing by 10 and 100. By dragging cards from the set of digit cards, different decimal numbers can be displayed. These decimal numbers can be placed in either of the two middle rows. The cards in the first row move when the multiply or divide buttons are selected. The cards will not move if the result is greater than 99 999 or less than 0.01. The cards in the second row do not move in order to highlight the shift in the digits when multiplying or dividing.

The ITP can be used to explore, and to encourage children to predict the effect of multiplying and dividing by 10 and 100. The ITP can also be used to demonstrate the effect of repeated multiplication and division by 10.



Multiply the top row by 10. All the cards move one place to the left.



Multiply the top row by 100. All the cards move two places to the left.



Divide the top row by 10. All the cards move one place to the right.



Divide the top row by 100. All the cards move two places to the right.



Change or hide the labels above the columns.



Show or hide lines between the columns.