## Calculation Maze Challenge

To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.

Choose any decimal number to start with. You can only move on to each box once. You do not have to move on to every box.

Find a route through the maze that creates the smallest number at the finish:
$\square$
Find a route through the maze that creates the biggest number at the finish:


Find a route through the maze that creates the same number at the start and finish:


| Start | $\longrightarrow$ $\longleftarrow$ | $\times 10$ | $\longleftrightarrow$ | $\div 10$ | $\longrightarrow$ | $\times 1000$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\times 100$ | $\longleftrightarrow$ | $\div 100$ |  | $\div 10$ |  | $\div 1000$ |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\div 10$ | $\longleftrightarrow$ | $\times 100$ | $\longrightarrow$ | $\times 1000$ | $\longrightarrow$ | $\times 10$ |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\div 1000$ |  | $\times 100$ |  | $\div 100$ |  | Finish |

## Calculation Maze Challenge Answers

To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.
000
Choose any decimal number to start with. You can only move on to each box once. You do not have to move on to every box.

Find a route through the maze that creates the smallest number at the finish:

$$
\times 10, \div 100, \div 10, \div 1000, \times 10
$$

Find a route through the maze that creates the biggest number at the finish:
$\times 100, \div 10, \times 100, \times 1000, \times 10$

Find a route through the maze that creates the same number at the start and finish:

$$
\times 10, \div 10, \times 1000, \div 1000, \div 10, \times 1000, \div 100
$$

| Start | $\longleftrightarrow$ | $\times 10$ | $\longleftrightarrow$ | $\div 10$ | $\longleftrightarrow$ | $\times 1000$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\times 100$ |  | $\div 100$ |  | $\div 10$ |  | $\div 1000$ |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\div 10$ |  | $\times 100$ |  | $\times 1000$ |  | $\times 10$ |
| $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |  | $\uparrow \downarrow$ |
| $\div 1000$ |  | $\times 100$ |  | $\div 100$ |  | Finish |

### 0.017

### 1.102

### 0.136



### 0.026

### 0.132



### 0.284

### 0.302

### 0.321

### 0.432

### 0.504

### 0.312

### 0.326

### 0.454



### 0.604

### 0.629

### 0.766

0.784

### 0.612

### 0.633

### 0.775

## 0 <br> - <br> 7 <br> 

### 0.814

### 0.837

### 0.867

### 0.899

# 0.901 

### 0.948

### 0.956



## Place Value Function Machines

To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.


Complete the missing output numbers for the 'Place-Value-O-Matic' function machines, which multiply and divide numbers by 10, 100 and 1000.


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## $\frac{x}{*}$ <br> Place Value Function Machines

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## Place Value Function Machines Answers

Complete the missing output numbers for the 'Place-Value-O-Matic' function machines, which multiply and divide numbers by 10, 100 and 1000.


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