# **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. Start × 10 ÷ 10 × 1000 Find a route through the maze that creates the smallest number at the finish: ÷ 1000 × 100 ÷ 100 ÷ 10 Find a route through the maze that creates the biggest number at the finish: ÷ 10 × 100 × 1000 × 10 Find a route through the maze that creates the same number at the start and finish:

÷ 1000

× 100

÷ 100

Finish

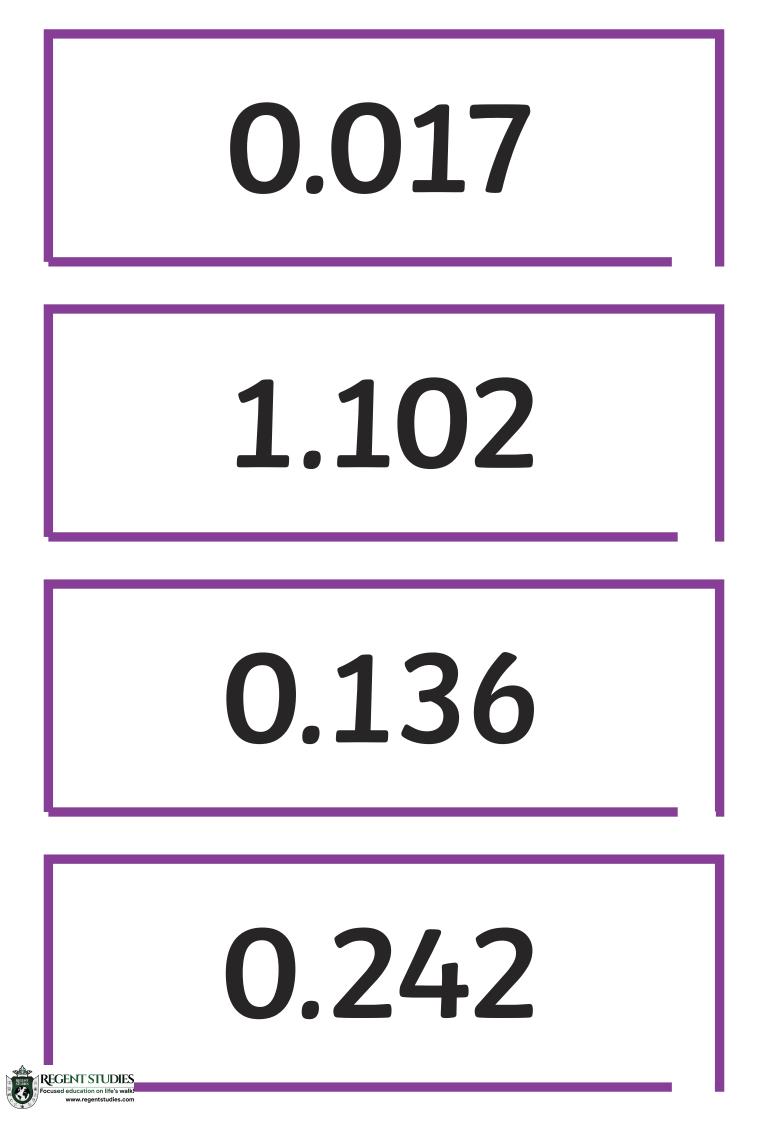


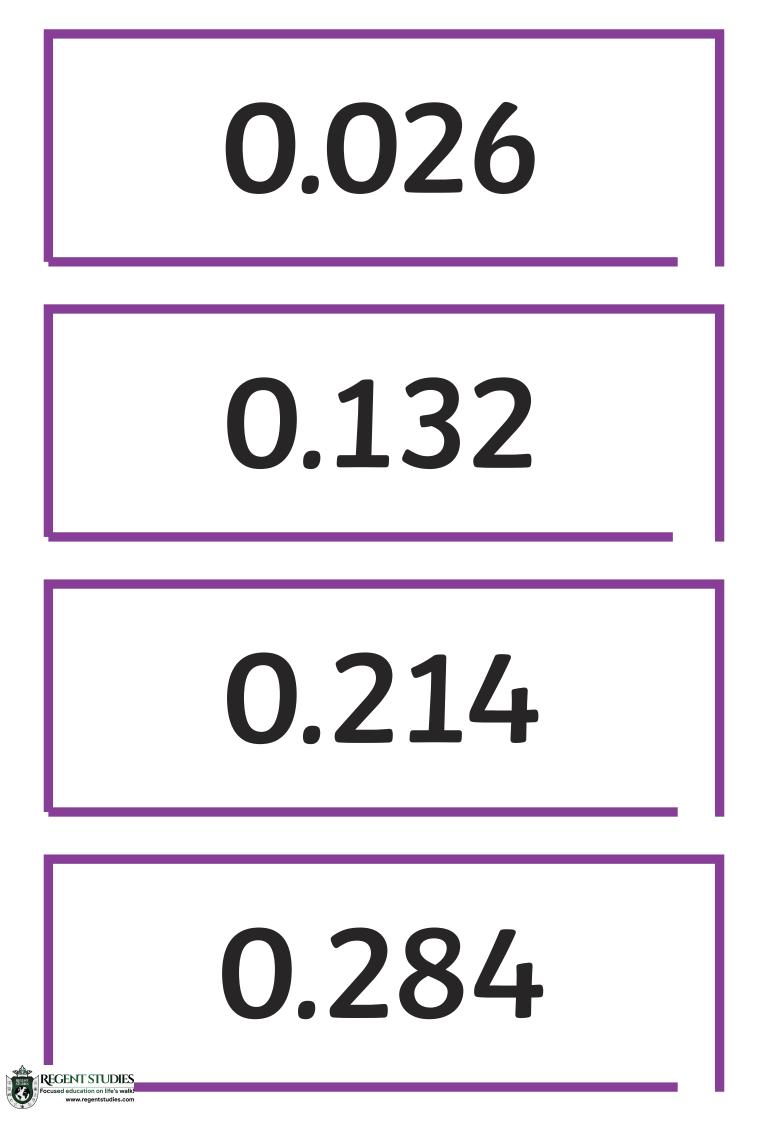
## Calculation Maze Challenge Answers

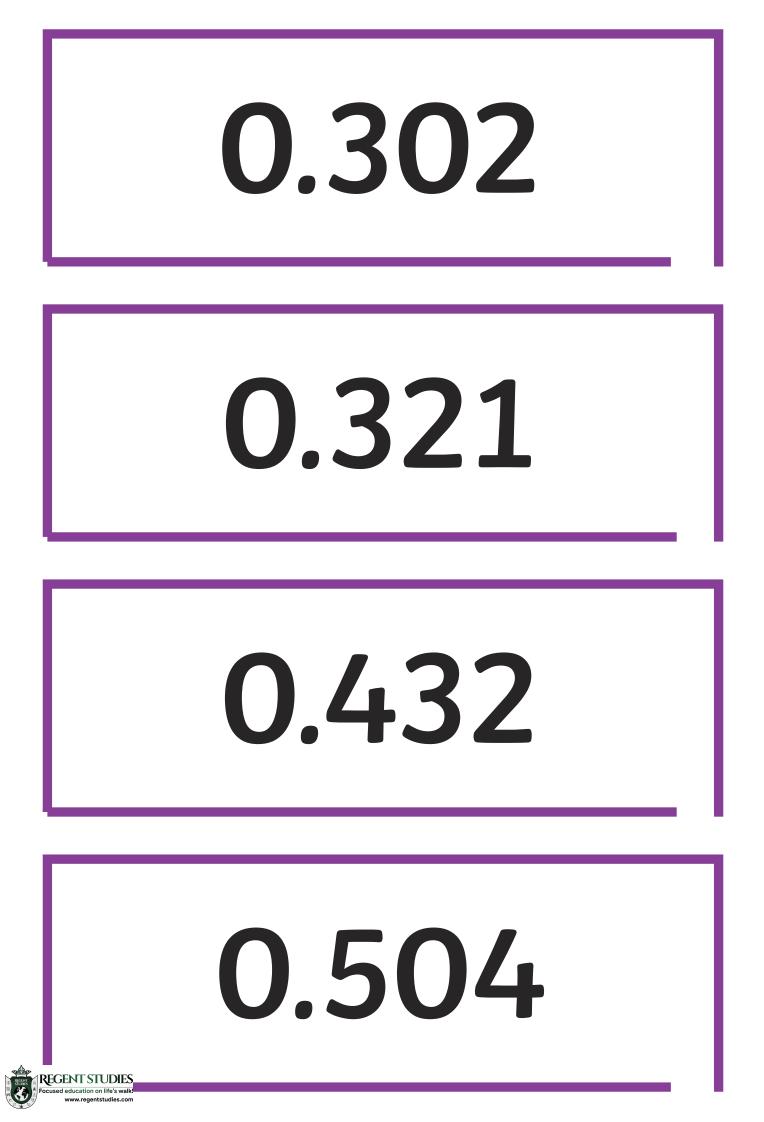
To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.

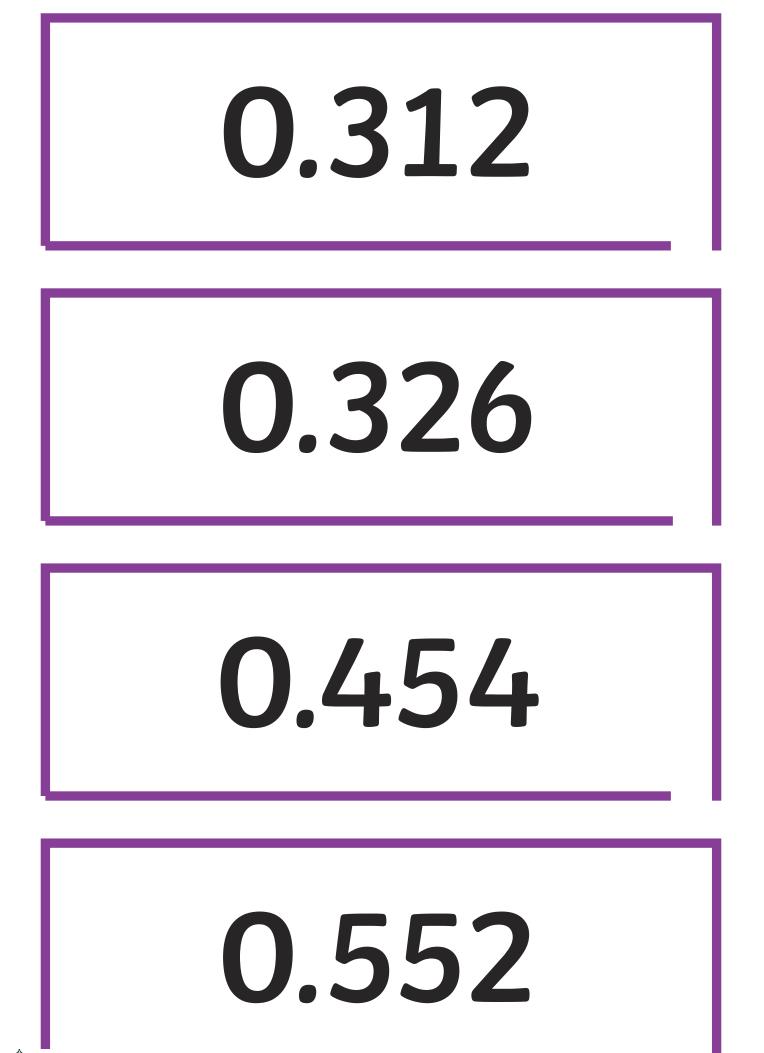
							00
Choose any decimal number to start with. You can only move on to each box once. You do not have to move on to every box.	Start	$\left   \right.$	× 10		÷ 10	$\left   \right.$	× 1000
Find a route through the maze that creates the smallest number at the finish:							
× 10, ÷ 100, ÷ 10, ÷ 1000, × 10	× 100		÷ 100	$  \leftarrow \rightarrow$	÷ 10		÷ 1000
Find a route through the maze that creates the biggest number at the finish:	$\uparrow \downarrow$		$\uparrow \downarrow$		$\uparrow \downarrow$		$\uparrow \downarrow$
× 100, ÷ 10, × 100, × 1000, × 10	÷ 10		× 100	$\rightarrow$ $\leftarrow$	× 1000	$  \leftarrow \rightarrow$	× 10
Find a route through the maze that creates the same number at the start and finish:	$\uparrow \downarrow$		$\uparrow\downarrow$		$\uparrow \downarrow$		$\uparrow \downarrow$
× 10, ÷ 10, × 1000, ÷ 1000, ÷ 10, × 1000, ÷ 100	÷ 1000	$\rightarrow$	× 100	$\rightarrow$	÷ 100	$\rightarrow$	Finish



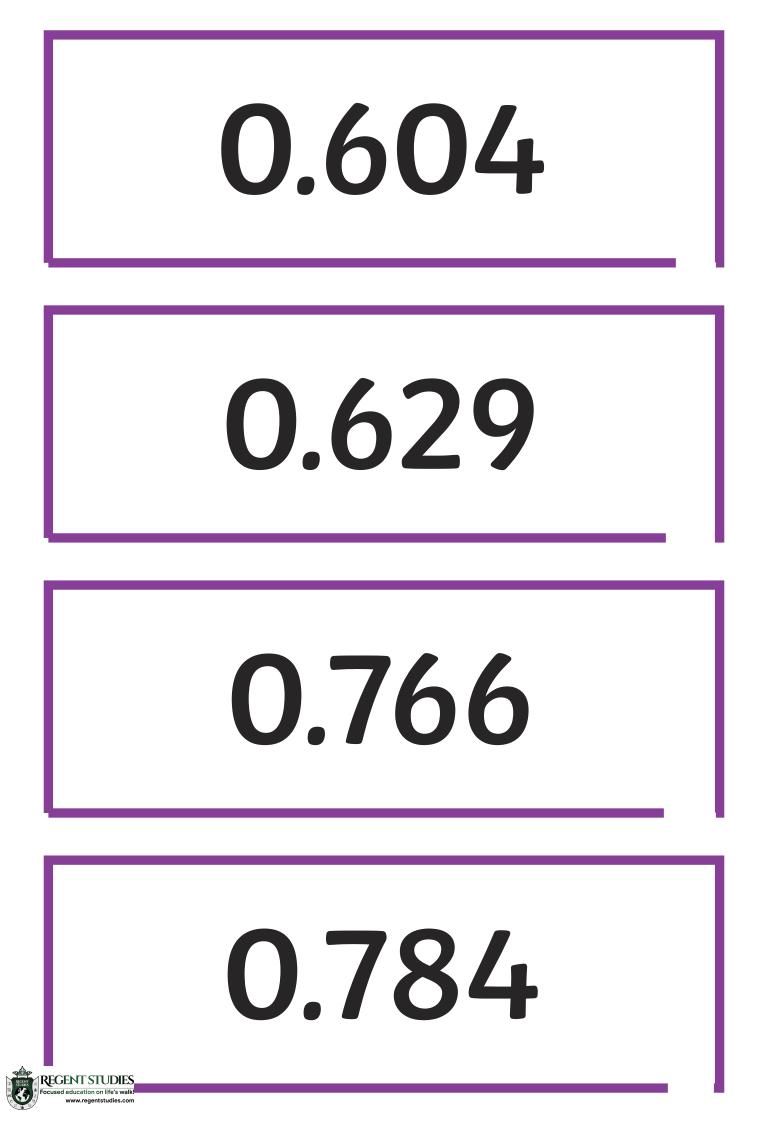


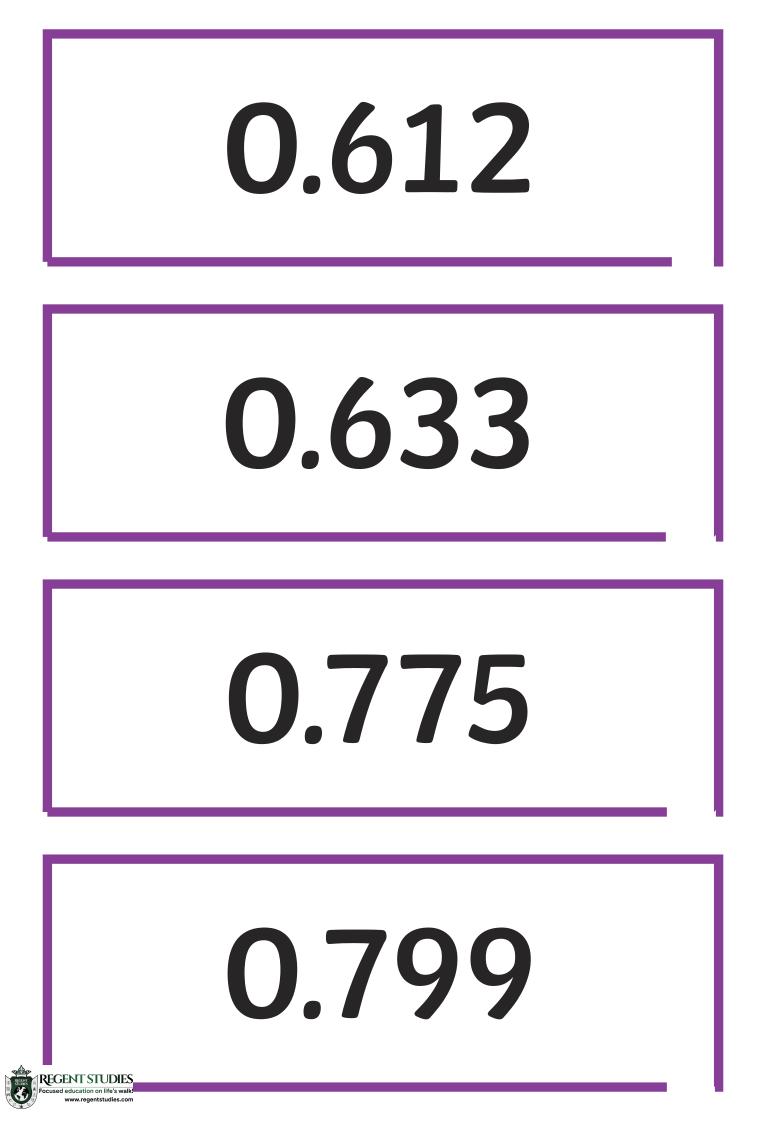


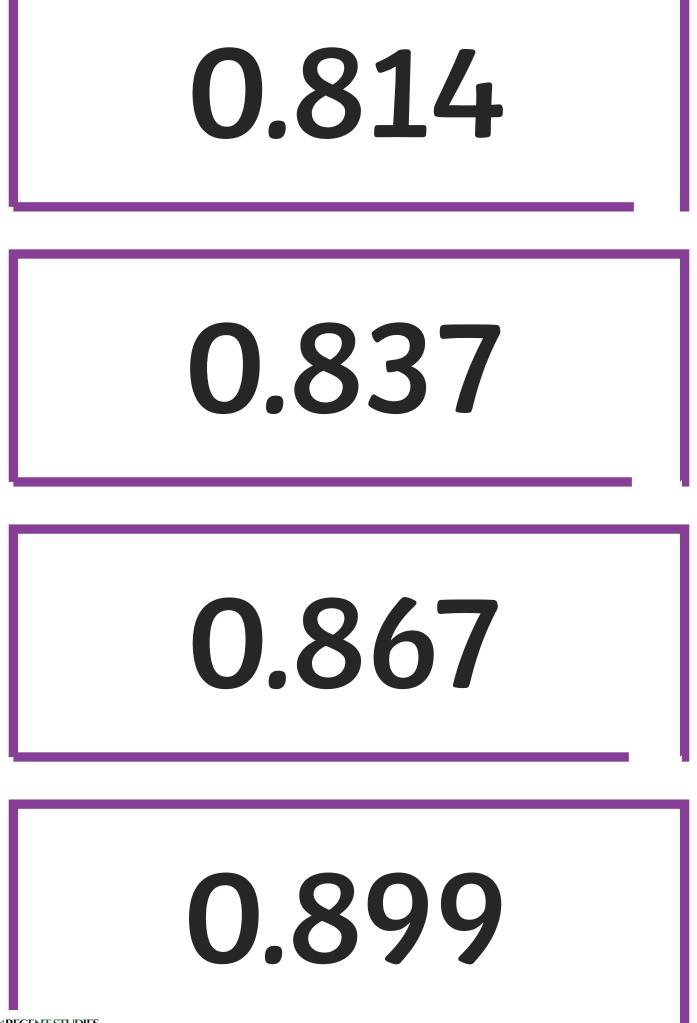






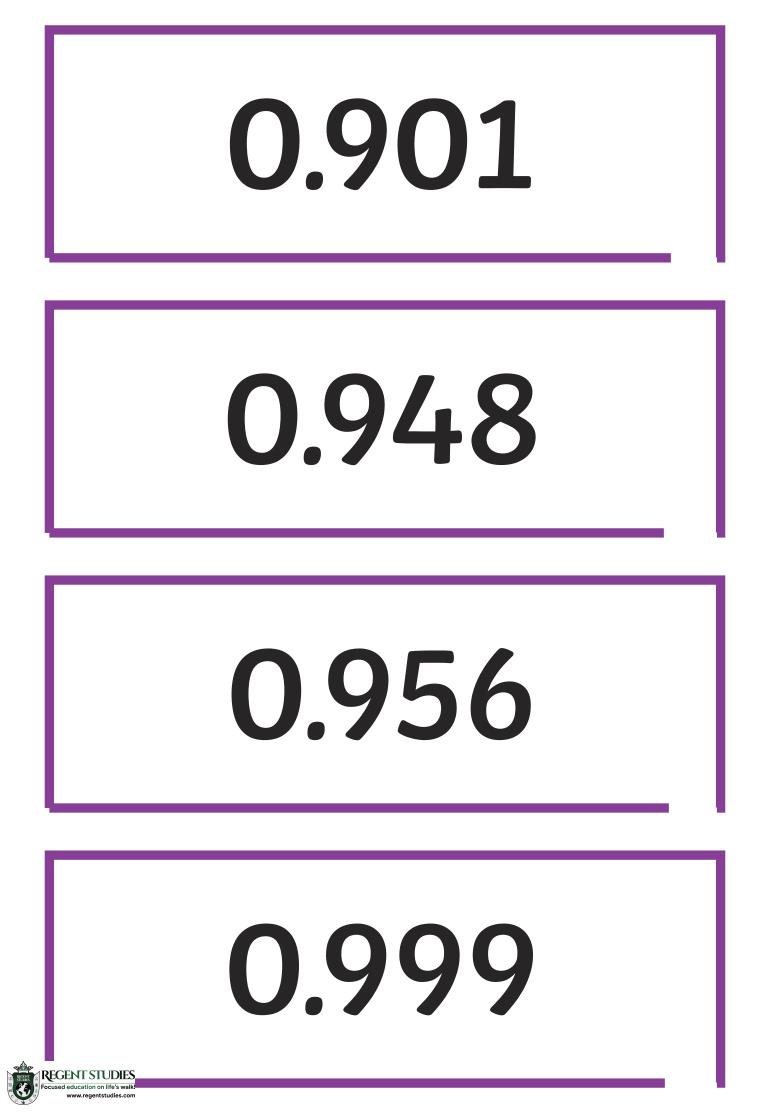






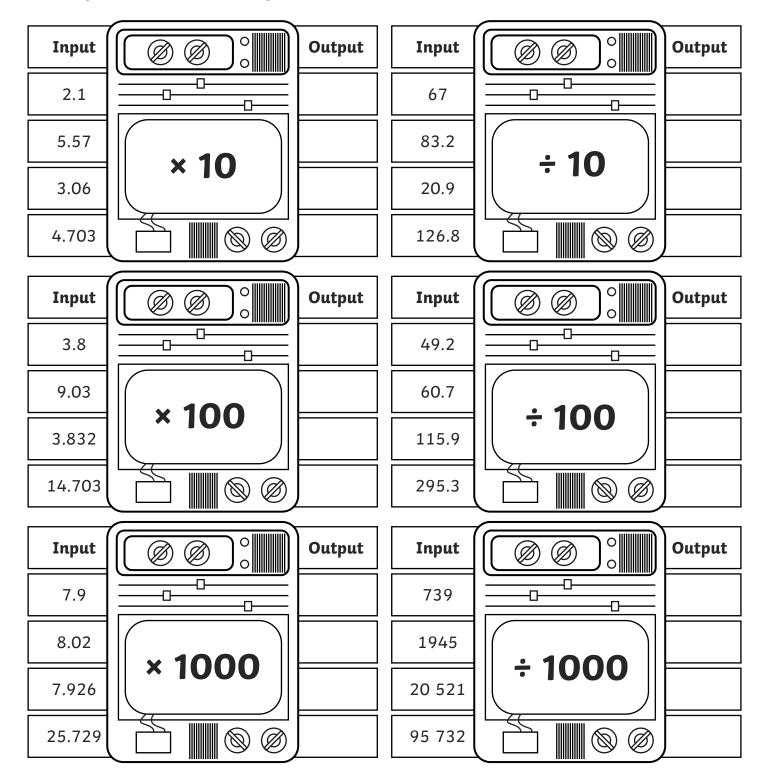
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To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.

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

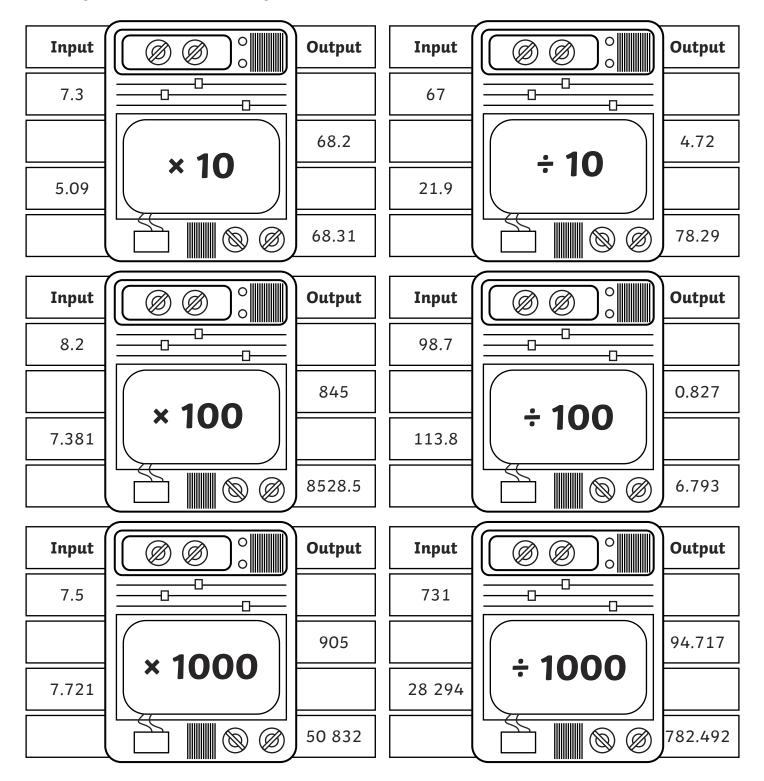






To multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places.

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







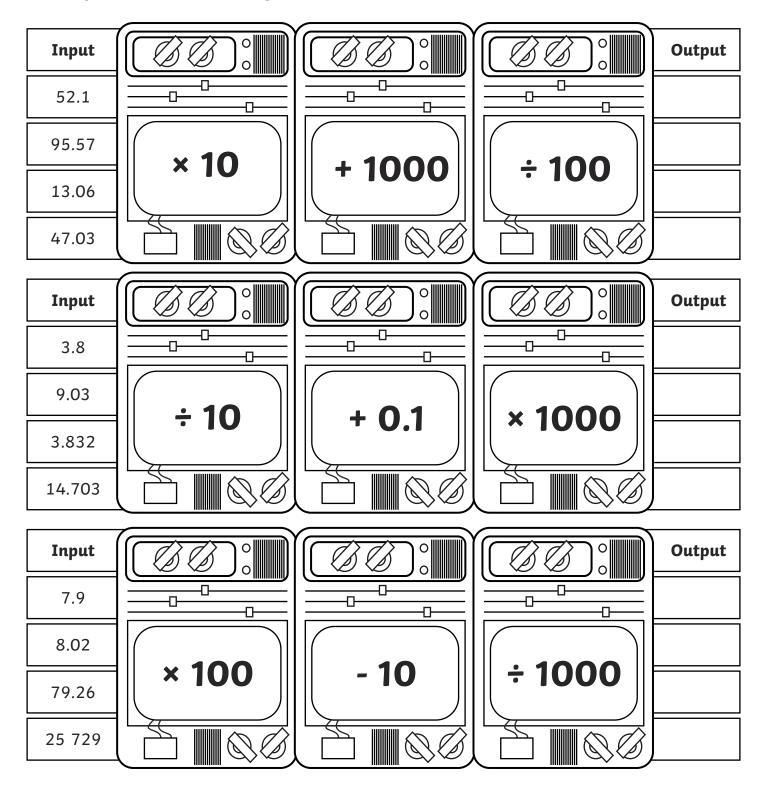
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### **Place Value Function Machines**

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.

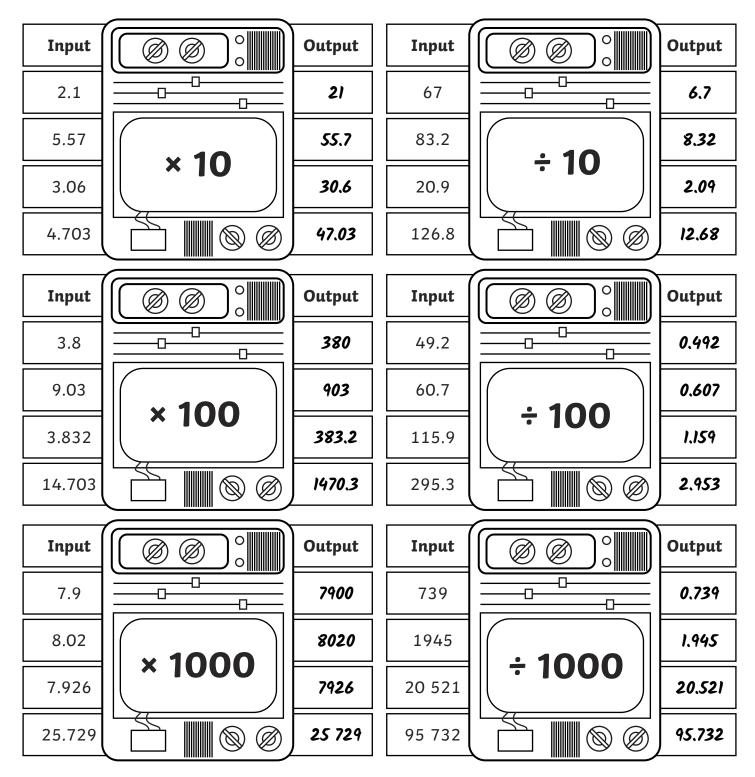






#### Place Value Function Machines **Answers**

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



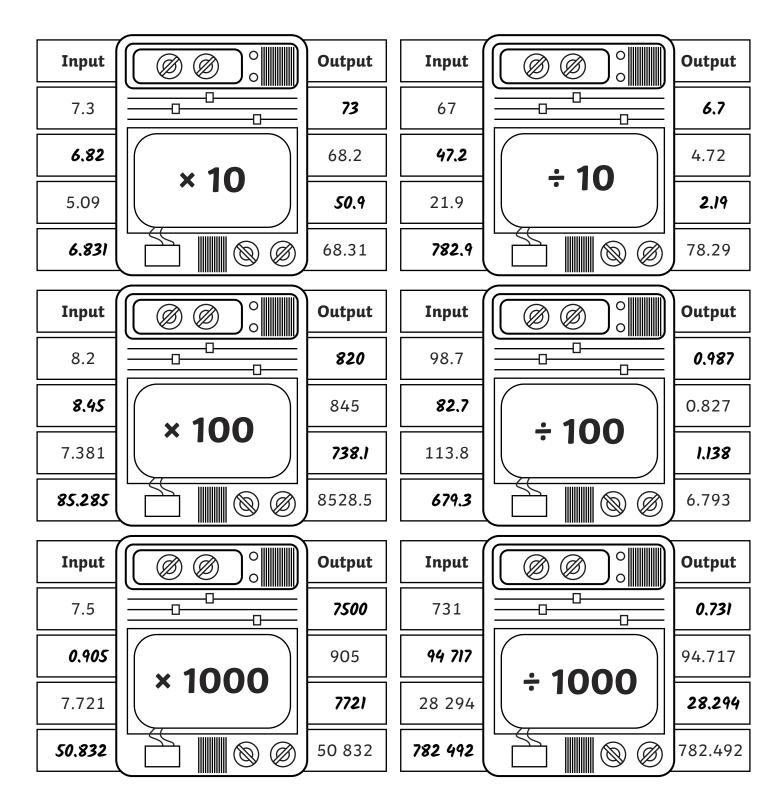




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#### Place Value Function Machines **Answers**

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





Mathematics I Year 6 I Number and Algebra I Fractions and Decimals I Multiply and Divide Decimals by 10, 100 and 1000 I Place Value Function Machine I Lesson 3 of 5



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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.

