

Multiplying and dividing by 10, 100 and 1000, including decimals

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000



Challenge 1

Complete the calculations using the correct operation: \times or \div .

- a $4 \quad 100 = 400$
- b $640 \quad 10 = 6400$
- c $110 \quad 10 = 11$
- d $6000 = 100 \quad 60$
- e $120 \quad 100 = 12\ 000$
- f $7200 = 720 \quad 10$
- g $3200 \quad 100 = 32$
- h $4800 \quad 10 = 480$
- i $9600 \quad 10 = 96\ 000$
- j $3500 \quad 1000 = 3.5$



Challenge 2

Three children played a place value game. They recorded their work on a place value chart like the one shown in the Example box. They wrote their start number on the chart and then followed the instructions on each of the cards shown below to find the next number.

Look at the cards each player had and find out who had the highest final score. Draw your own place value charts to record your work.

Example
Start 6

	Th	H	T	O	.	t	h
Start				6			
$\times 10$			6	0			
$\div 100$				0		6	

Player 1

Start									Final
4	$\times 10$	$\times 10$	$\div 1000$	$\times 100$	$\div 10$	$\div 100$	$\times 1000$	$\div 10$?

Player 2




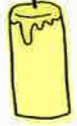




Start									Final
8	$\times 1000$	$\div 100$	$\div 10$	$\times 1000$	$\div 100$	$\times 10$	$\div 10$	$\div 10$?

Player 3









Start									Final
1	$\times 100$	$\div 10$	$\times 100$	$\div 1000$	$\div 10$	$\times 100$	$\times 10$	$\times 100$?

Challenge 3

1 Work out the total cost. Write your answer in pounds.

- a 10  costing 89p each
- b 100  costing £2.29 each
- c 10  costing £5.68 each
- d 8  costing £0.80 each
- e 4000  costing £0.01 each
- f 50  costing 50p each
- g 1000  costing £2.49 each
- h 60  costing £0.70 each

2 Look at the total cost. Work out the cost of each item.

- a 100  for £89
- b 10  for £25.90
- c 1000  for £630
- d 10  for £43.90
- e 10  for £4.50
- f 50  for £10
- g 300  for £90.00
- h 1000  for £89

