

Multiplying and Dividing Decimals by 10 and 100

1

Work out 2.4×10 . Ten of a counter make one counter in the next column up.

	Hundreds	Tens	Ones	Tenths	Hundredths
Start			1 1	0.1 0.1 0.1 0.1	
$\times 10$		10 10	1 1 1 1		
Count	0	2	4	0	0

Answer 24

2

Work out 3.6×10 . Ten of a counter make one counter in the next column up.

	Hundreds	Tens	Ones	Tenths	Hundredths
Start			1 1 1	0.1 0.1 0.1 0.1 0.1 0.1	
$\times 10$		10 10 10	1 1 1 1 1 1		
Count	0	3	6	0	0

Answer 36

3

Work out 0.7×10 . Ten of a counter make one counter in the next column up.

	Hundreds	Tens	Ones	Tenths	Hundredths
Start				0.1 0.1 0.1 0.1 0.1 0.1 0.1	
$\times 10$			1 1 1 1 1 1 1		
Count	0	0	7	0	0

Answer 7

4

Work out 1.25×10 . Ten of a counter make one counter in the next column up.

	Hundreds	Tens	Ones	Tenths	Hundredths
Start			1	0.1 0.1	0.01 0.01 0.01 0.01 0.01
$\times 10$		10	1 1	0.1 0.1 0.1 0.1 0.1	
Count	0	1	2	5	0

Answer 12.5

5

Work out 0.45×100 . Times 100 is times 10, then times 10 again.

	Hundreds	Tens	Ones	Tenths	Hundredths
Start				0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01
$\times 100$		10 10 10 10	1 1 1 1 1		
Count	0	4	5	0	0

Answer 45

6

Work out 3.2×100 .

	Hundreds	Tens	Ones	Tenths	Hundredths
Start			1 1 1	0.1 0.1	
$\times 100$		100 100 10 10 100			
Count	3	2	0	0	0

Answer 320

7

Find the missing number.

$\times 10 = 6.8$

	Hundreds	Tens	Ones	Tenths	Hundredths
Start				0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	
$\times 10$			1 1 1 1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1	
Count	0	0	6	8	0

Missing number 0.68

8

A pencil is 8.5 cm long. There are 10 mm in 1 cm. How long is the pencil in mm?

	Hundreds	Tens	Ones	Tenths	Hundredths
Start			1 1 1 1 1 1 1 1	0.1 0.1 0.1 0.1	
$\times 10$		10 10 10 10 10 10 10 10	1 1 1 1		
Count	0	8	5	0	0

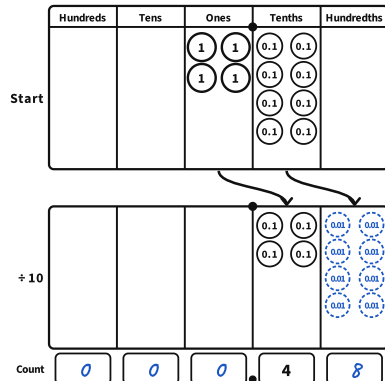
Length 85 mm

Multiplying and Dividing Decimals by 10 and 100 *further practice*

ANSWERS

9

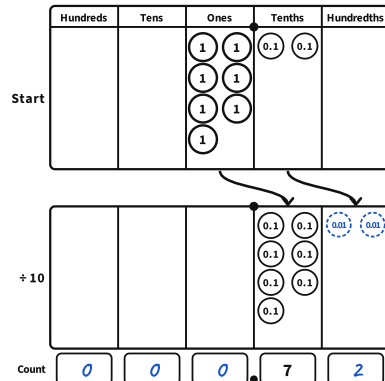
Work out $4.8 \div 10$. Swap each counter for ten in the next column down. Share them into ten.



Answer 0.48

10

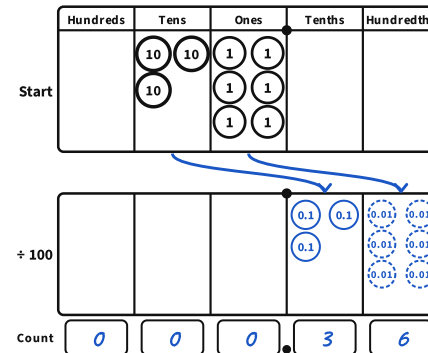
Work out $7.2 \div 10$. Swap each counter for ten in the next column down. Share them into ten.



Answer 0.72

11

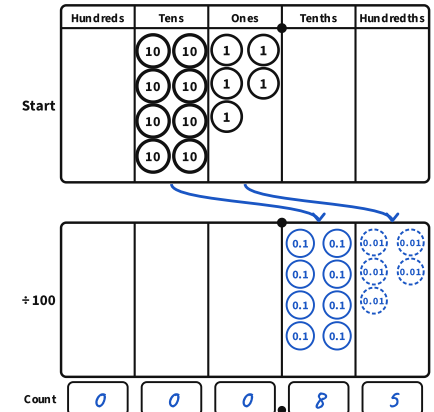
Work out $36 \div 100$.



Answer 0.36

12

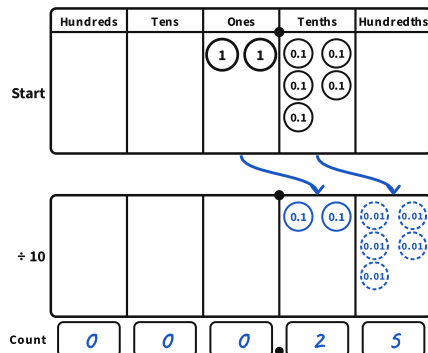
A drink costs 85p. There are 100p in £1. Write the price in pounds.



Price £0.85

13

A plank 2.5 m long is cut into 10 equal pieces. How long is each piece?

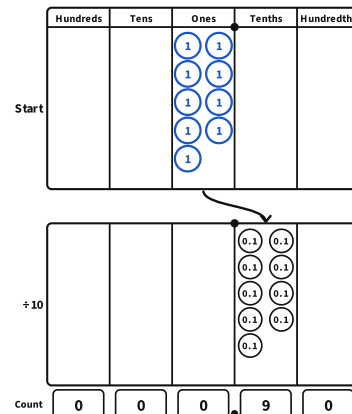


Each piece 0.25 m

14

Find the missing number.

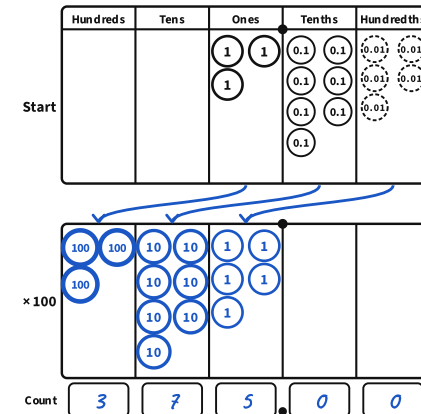
$\div 10 = 0.9$



Missing number 9

15

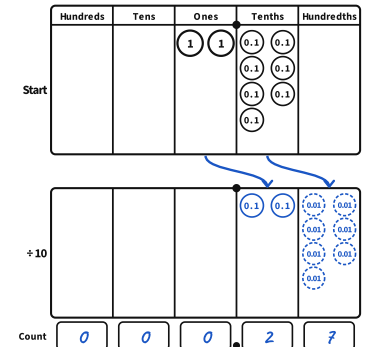
A magazine costs £3.75. How much is that in pence?



Pence 375p

16

Sam says $2.7 \div 10 = 2.07$ because you put a 0 in. Is Sam right? Explain.



No. Each counter moves down,
so $2.7 \div 10 = 0.27$