Multiplying by 10, 100 and 1000

Answers

MathsHUBS White Rose

Answer the following questions.

You can use place value cards and counters to help you.

1. (a) 4 x 100 = 400

(b) 75 x 10 = 750

(c) 21 x 1000 = 21,000

(d) 100 x 33 = 3,300

(e) 60 x 10 = 600

2. (a) 2400 ÷ 100 = 24

(b) 68 ÷ 10 = 6.8

(c) 350 ÷ 1000 = 0.35

(d) 9 ÷ 10 = 0.9

(e) 9 ÷ 1000 = 0.009

3. Work out

(a) 15 x 10 ÷ 100 = 1.5

(b) 6 ÷ 100 x 1000 = 60

3. Fill in the missing numbers in these calculations.

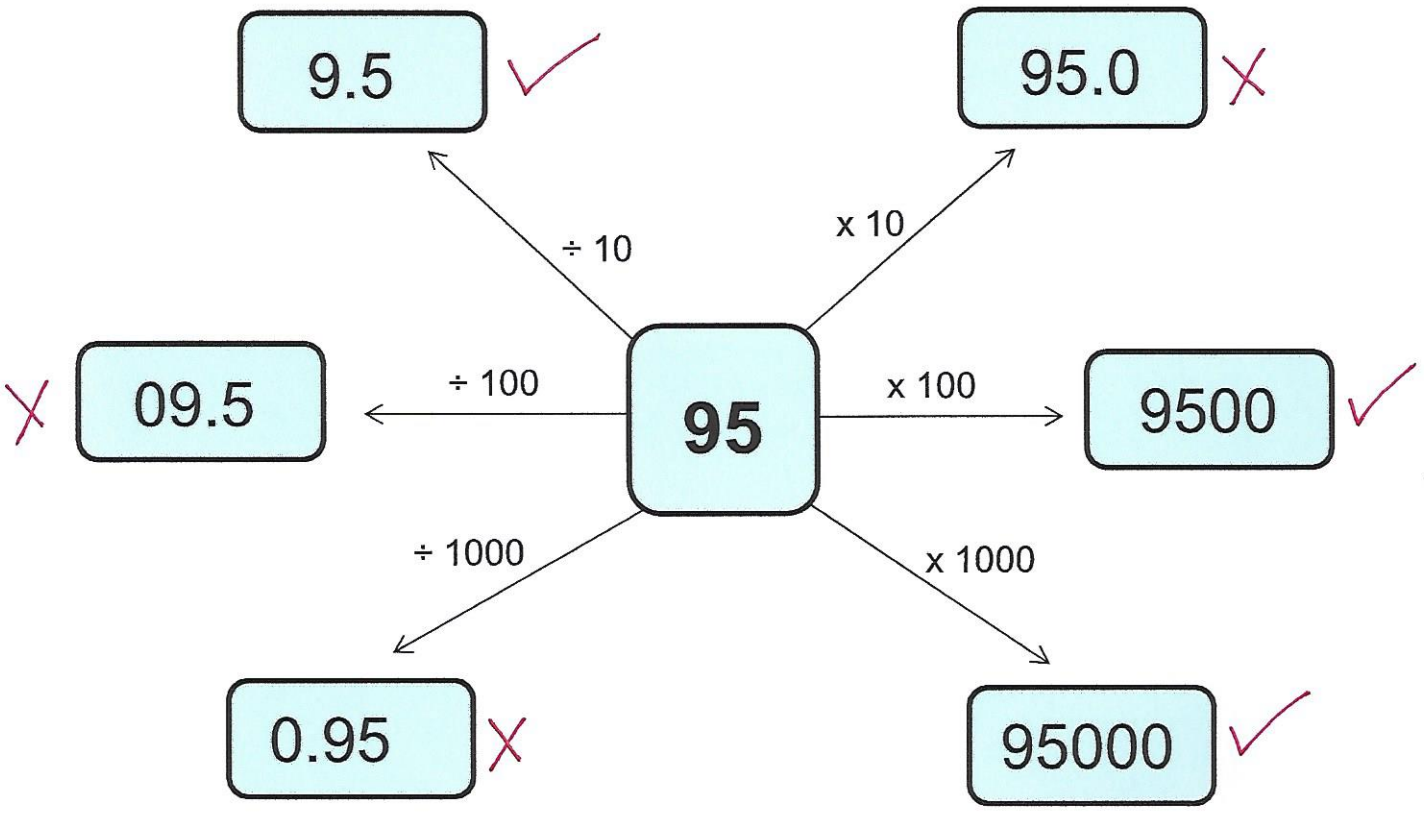
(a) $6 \div$ 10 $= 0.6$

(b) 45 $\times 100 = 4500$

(c) $0.74 = 74 \div$ 100

(d) $1000 \times$ 65.8 $= 65800$

4. Look at the diagram below.



Tick the boxes that are correct and put a cross next to the boxes that are incorrect.

In the space below **explain** what the correct answers should be.

95 ÷ 1000 = 0.095 95 ÷ 100 = 0.95

95 x 10 = 950

5. Put these calculations in order from smallest to biggest.

S L

(5)	(4)	(3)	(1)	(2)
100 × 540	5.4 ×1000	5400 ÷ 10	5400 ÷ 1000	540 ÷ 10
54,000	5,400	540	5.4	54

6. By using a number from column A, an operation from B and a number from C, how many ways can you find to make 70?

A	B	C
7	×	1
70		10
700	÷	100
7000		1000

7 X 10
70 X 1
700 ÷ 10
7000 ÷ 100
70 ÷ 1

There are more than 4 ways.

7. Can you find a path from 6 to 0.06?

You are not allowed to make diagonal moves.

6	**x 10**	**x 10**	**÷ 100**
÷ 10	**x 100**	**x 100**	**÷ 10**
x 10	**÷ 10**	**÷ 1000**	**÷ 100**
÷ 1000	**x 1000**	**x 100**	**0.06**

8. Work out the value of each symbol.

$7 \times 10 \times 10 \times$  $\times 10 = 21{,}000$

3

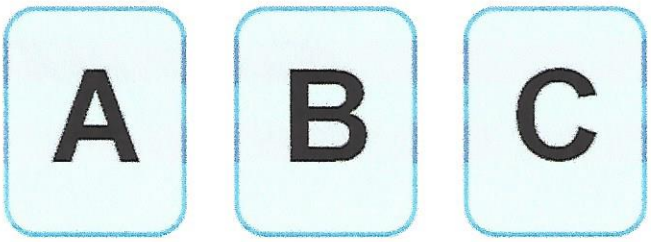
 $\times 100 \times$  $= 30{,}000$

3 100

 $\times$  $\div$  $= 3.6$

3 12 10

9.



B is 10 times bigger than A

C is 1000 times bigger than A

What is the value of C ÷ B?

Example

10×A 1000×A

A B C

3 30 3000

$C \div B = 100$

$C \div B = 3000 \div 30$
$= 100$