

## Arithmetic

1.  $428 \times 13$

2.  $\frac{2}{5}$  of 40

3.  $4.6 + 3.9$

4.  $3,142 \times 7$

## Practice: Divide by 10, 100 and 1,000

5. Recap: Explain how to divide 120 by 10, 100 and 1,000.



6. Divide by 10.

a. 0.9

b. 2.058

c. 3.13

7. Divide by 100.

a. 0.9

b. 2.058

c. 3.13

8. Divide by 100.

a. 8.64

b. 45.097

c. 128.9

9. Divide by 10.

a. 8.64

b. 45.097

c. 128.9

10. Is it necessary to include the zero in the answer to this calculation?



$43.02 \div 10$

11. Divide by 1,000.

a. 20.07

b. 5.1

c. 287.096

12. Divide by 10.

a. 20.07

b. 5.1

c. 287.096

13. Arwel says that to divide numbers by 10, you can write the number on a place value chart and move each digit one column to the left. Is this correct? Explain



## Challenge

14.  $140 \div 100 = 1.4$ 

How many other facts can you derive from this?

For example

$14 \div 10 = 1.4$

$1.5 \div 100 = 1.5$

You might want  
to talk to an adult

Spot the mistake

## Answers

Q no.	Question	Answer
1	$428 \times 13$	5,564
2	$\frac{2}{5}$ of 40	16
3	$4.6 + 3.9$	8.5
4	$3,142 \times 7$	21,994
5	Explain how to divide 120 by 10, 100 and 1,000.	Pupils will have a range of ways to explain this process, accept any way that accurately describes dividing by powers of ten. Pupils may discuss moving the digits to the right one/ two/ three places and filling appropriate empty columns with place holders. They should understand that the digits decrease in value which is why they move to the right. It is important that pupils understand they do not move the decimal point.
6	Divide by 10.	a. 0.09, b. 0.2058, c. 0.313
7	Divide by 100.	Note that the numbers are the same as Q6 deliberately. Pupils can use these answers to calculate dividing by 100. a. 0.009, b. 0.02058, c. 0.0313
8	Divide by 100.	a. 0.0864, b. 0.45097, c. 1.289
9	Divide by 10.	Note that the numbers are the same as Q8 deliberately. Pupils can use these answers to calculate dividing by 10. a. 0.864, b. 4.5097, c. 12.89
10	Is it necessary to include the zero in the answer to this calculation?	The answer would be 4.302. As the zero is within the number, it is important to include it in the answer. If the zero was at the end of the answer (4.320) it would not be necessary to include it.
11	Divide by 1,000.	a. 0.02007, b. 0.0051, c. 0.287096
12	Divide by 10.	Note that the numbers are the same as Q11 deliberately. Pupils can use these answers to calculate dividing by 10. a. 2.007, b. 0.51, c. 28.7096
13	Is this correct? Explain	This is incorrect. When dividing numbers by 10 using a place value chart, the digits move one column to the right.
14	$140 \div 100 = 1.4$ How many other facts can you derive from this? For example $14 \div 10 = 1.4$ $1.5 \div 100 = 1.5$	Answers will vary. Accept answers that can logically be related to the original calculation. Example answers: $160 \div 100 = 1.6$ $1.4 \div 100 = 0.014$ $1,400 \div 100 = 14$