

How does place value help us multiply and divide by 10, 100, 1,000 and 10,000?

Brief overview

[Wednesdat Teaching Slides](#) will help you with this work.

Pages 2 – 4 show different levels of challenge. Questions gradually get harder as they move through the pages. Children do not need to complete all levels and may choose to start on page 4 or 5 if they wish.

Mastery documents – dive into mastery –select appropriate challenge

Write a 3-digit number on a piece of tracing paper or clear plastic and practice moving the whole number to the left or right.

x1000	x100	x10	÷ 10	÷ 100	÷ 1000
Move 3 places to the left.	Move 2 places to the left.	Move 1 place to the left.	Move 1 place to the right.	Move 2 places to the right.	Move 3 places to the right.

Dividing by 10, 100 and 1,000

1a. Match each statement below to the correct answer.

$$14,500 \div 10 =$$

T Th	Th	H	T	O
	●	●●●●	●●●●	

$$6,000 \div 100 =$$

T Th	Th	H	T	O
			●●	●

$$21,000 \div 1,000 =$$

T Th	Th	H	T	O
			●●●●	



VF

Dividing by 10, 100 and 1,000

1a. A number divided by 100 equals this:

T Th	Th	H	T	O
		●	●●●●	

William says the calculation must have been $1,500 \div 100$.

Is he correct?
Convince me.



R

2a. Calculate:

$$51,300 \div 100$$

$$51,300 \div 10$$

T Th	Th	H	T	O
●●●●	●	●●●		



VF

2a. Gary is completing the calculation below.

$$54,800 \div 100 =$$

He has shown his answer on the place value chart below.

T Th	Th	H	T	O
	●●●●	●●●●	●●●●	

Explain the mistake that Gary has made.



R

3a. Use the numbers below to make this statement correct.

$$\square \div 1,000 < \square \div 100$$

a.

T Th	Th	H	T	O
●●●●	●●●●			

b.

T Th	Th	H	T	O
	●●●●	●●●		



VF

3a. Alan is thinking of a five-digit number.

He divides the number by 1,000.

The answer he gets after dividing by 1,000 is less than 60 but greater than 10.

The digits in the number have a sum of 5.

What number did Alan start with?

T Th	Th	H	T	O

4a. True or false? The following calculations both give an answer of 740.

$$7,400 \div 100$$

$$74,000 \div 1,000$$

T Th	Th	H	T	O
	●●●●	●●●●		

T Th	Th	H	T	O
●●●●	●●●●			



VF



PS

Dividing by 10, 100 and 1,000

5a. Match each statement below to the correct answer.

$$42,000 \div 10 =$$

T Th	Th	H	T	O
	● ● ● ● ●	● ●		

$$42,000 \div 100 =$$

42

$$42,000 \div 1,000 =$$

T Th	Th	H	T	O
		● ● ● ● ●	● ●	



VF

6a. Calculate:

$$72,600 \div 100$$

$$72,600 \div 10$$

T Th	Th	H	T	O



VF

7a. Use two of the numbers below to make this statement correct.

$$\square \div 1,000 < \square \div 100$$

a. $84,700$

b. $99,000$

c.

T Th	Th	H	T	O
● ● ● ● ●	● ● ● ● ●			
● ●				



VF

8a. True or false? The following calculations both give an answer of 95.

$$95,000 \div 1,000$$

$$95,000 \div 100 \div 10$$

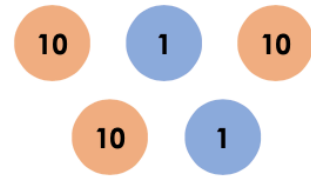
T Th	Th	H	T	O
● ● ● ● ●	● ● ● ● ●			
● ● ● ● ●	●			



VF

Dividing by 10, 100 and 1,000

4a. A number divided by 1,000 equals this:



Sinead says the calculation must have been $23,000 \div 1,000$.

Is she correct?
Convince me.



R

5a. Daniel is completing the calculation below.

$$62,000 \div 100 =$$

He has shown his answer on the place value chart below.

T Th	Th	H	T	O
			6	2

Explain the mistake that Daniel has made.



R

6a. Josh is thinking of a five-digit number.

He divides the number by 100.

The answer he gets after dividing by 100 is less than 400 but greater than 200.

The digits in the number have a sum of 7.

What number did Josh start with?



PS

Dividing by 10, 100 and 1,000

7a. A number divided by 10 then divided by 10 again equals this:

Three tens and thirteen ones

Jenny says the calculation must have been $4,200 \div 10 \div 10$.

Is she correct?
Convince me.



R

8a. Leah is converting metres into kilometres.

$$12,450\text{m} \div 1,000 =$$

She has calculated the answer below.

Twelve ones, three tenths and twenty-four hundredths kilometres

Explain the mistake that Leah has made.



R

9a. April is thinking of a five-digit number.

She divides the number by 10 then by 100.

The answer she gets after dividing is less than 80 but greater than 30. It is also odd.

The digits in the number have a sum of 8.

What number did April start with?



PS

Dividing by 10, 100 and 1,000

9a. Match each statement below to the correct answer.

$$2,100 \div 10 =$$

one ten and eleven ones

$$2,100 \div 100 =$$

one hundred and eleven tens

$$2,100 \div 1,000 =$$

two ones and one tenth



VF

10a. Calculate:

1 thousand, 12 hundreds and 14 tens divided by one hundred

1 thousand, 12 hundreds and 14 tens divided by ten



VF

11a. Use two of the numbers below to make this statement correct.

$$\square \div 1,000 < \square \div 100$$

a. 11 thousands and 50 hundreds

b. 31 thousands and 190 tens

c. 20 thousands, 34 hundreds and 40 tens



VF

12a. True or false? The following calculations both give an answer of £640.

$$£64,000 \div 100$$

$$64,000\text{p} \div 10 \div 10$$



VF

