

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

Brief overview

There is a [powerpoint with teaching slides to support this work](#) –it mention activities which are found below.

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

Multiply by 10, 100 and 1,000

1a. Look at the number shown below.

M	HTh	TTh	Th	H	T	O
				••	•••	•

Multiply the number by 100. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O



VF

2a. Circle the correct answer to the following calculation.

$$16,251 \times 10 =$$

M	HTh	TTh	Th	H	T	O
		•	•••	••	•••	•

M	HTh	TTh	Th	H	T	O



162,510

1,625,100

162,150

VF

3a. Complete the calculations.

$$\boxed{} = 6,461 \times 1,000$$

M	HTh	TTh	Th	H	T	O
			•••	•••	•••	•

M	HTh	TTh	Th	H	T	O



VF

4a. Add the missing multiples to complete the calculations.

$$3,613 \times \boxed{} = 361,300$$

M	HTh	TTh	Th	H	T	O
			•••	•••	•	•••



VF

Multiply by 10, 100 and 1,000

1a. Romeo planted 412 trees.

M	HTh	TTh	Th	H	T	O

Hannah planted 100 times more trees than Romeo.

M	HTh	TTh	Th	H	T	O

How many trees did they plant altogether?



PS

2a. The fruit represents a multiple of 10, 100 or 1,000.



$$\times 4,315 = 4,315,000$$

M	HTh	TTh	Th	H	T	O

M	HTh	TTh	Th	H	T	O

What is the value of the fruit? Prove it.



R

3a. Kara is matching calculations where numbers have been multiplied by either 10, 100 or 1,000 but she's jumbled up her cards. Find the matching pair.

M	HTh	TTh	Th	H	T	O

A. 63,700

B. 673

C. 673,000

Which number does not belong? Convince me.



R

Multiply by 10, 100 and 1,000

5a. Look at the number shown below.

2,613

Multiply the number by 10. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O



VF

6a. Circle the correct answer to the following calculation.

$$35,201 \times 100 =$$

M	HTh	TTh	Th	H	T	O



3,521,100

3,520,100

352,010

VF

7a. Complete the calculations.

A. = 1,836 x 100

B. 10 x 41,059 =

C. = 6,273, x 1,000



VF

8a. Add the missing multiples to complete the calculations.

$$3,607 \times \text{[]} = 360,700$$

$$306,420 \times \text{[]} = 3,064,200$$



VF

Multiply by 10,100 and 1,000

4a. Alfie sold 104 tickets.

Beth has sold 10 times as many tickets as Alfie.


Zac has sold 100 times as many tickets as Beth.


How many tickets have they sold altogether?




PS

5a. Each fruit represents a multiple of 10, 100 or 1,000.

A.  x 2,765 = 276,500

B. 302,090 = 30,209 x 

C. 51,900 = 519 x 

What is the value of each fruit? Prove it.



R

6a. Jack is matching calculations where numbers have been multiplied by either 10, 100 or 1,000 but he's jumbled up his cards. Find the matching pairs.

A. 664

B. 960

C. 9,600

D. 9,060

E. 66,400

Which number does not belong? Convince me.



R

Multiply by 10, 100 and 1,000

9a. Look at the number shown below.

16,020

Multiply the number by 100. Record your answer below.



VF

10a. Circle the correct answer to the following calculations.

$$3,705 \times 100 \times 10 =$$

3,750,500

3,705,000

3,750,000

$$420 \text{ hundreds and } 55 \text{ tens} \times 10 =$$

47,550

4,255,000

425,500



VF

11a. Complete the calculations.

A. = 400 tens and 54 ones $\times 10 \times 10$

B. $1,000 \times 2,306\text{ml} =$

C. = $6,273\text{cm} \times 10 \times 100$



VF

12a. Add the missing multiples to complete the calculations.

$$5,027\text{cm} \times \text{ } \times \text{ } = 5,027,000\text{cm}$$

$$90,206\text{m} \times \text{ } \times \text{ } = 9,020,600\text{m}$$



VF

Multiply by 10, 100 and 1,000

7a. Jamie drives 2,450m. Then a further 2,050m.

Olivia drives 10 times further than Jamie.

Sasha drives 100 times further than Jamie.



How far have they driven between them in kilometres and metres?



PS

8a. Each fruit represents a multiple of 10, 100 or 1,000.

A.  \times  $\times 4,261 = 4,261,000$

B. $960,500 = 9,605 \times$  \times 

C. $311,700 = 3,117 \times$  \times 

What is the value of each fruit? Prove it.



R

9a. Alice is matching calculations where numbers have been multiplied by either 10, 100 or 1,000 but she's jumbled up his cards. Find the matching pairs.

A. 55 tens and 4 ones

B. 5,400

C. 50 tens and 45 ones

D. 55,400

E. 545,000

Which number does not belong? Convince me.



R

