Multiply by 10, 100 and 1,000

White Rose MATHS

1 Complete the multiplications.

a)

H	T	O	Tth	Hth
		3	7	

$3.7 \times 10 =$ ☐

b)

H	T	O	Tth	Hth
	1	4	5	

$14.5 \times 10 =$ ☐

c)

H	T	O	Tth	Hth
		1	5	8

$1.58 \times 10 =$ ☐

d)

H	T	O	Tth	Hth
	1	3	0	6

$13.06 \times 10 =$ ☐

What do you notice when you multiply a number by 10?

2 Complete the multiplications.

a) $1.7 \times 10 =$ ☐

b) $1.75 \times 10 =$ ☐

c) $1.73 \times 10 =$ ☐

d) $13.4 \times 10 =$ ☐

e) $10 \times 13.04 =$ ☐

f) $130.4 \times 10 =$ ☐

3 Complete the multiplications.

a)

H	T	O	Tth	Hth
		4	1	

$4.1 \times 100 =$ ☐

b)

H	T	O	Tth	Hth
		4	1	5

$4.15 \times 100 =$ ☐

c)

H	T	O	Tth	Hth
	1	4	5	

$14.5 \times 100 =$ ☐

d)

H	T	O	Tth	Hth
		4	0	5

$4.05 \times 100 =$ ☐

What do you notice when you multiply a number by 100?

4 Complete the multiplications.

a) $7.2 \times 100 =$ ☐

b) $3.4 \times 100 =$ ☐

c) $19.5 \times 100 =$ ☐

d) $1.89 \times 100 =$ ☐

e) $73.57 \times 100 =$ ☐

f) $1.317 \times 100 =$ ☐

5 Tiny has multiplied 3.8 by 1,000
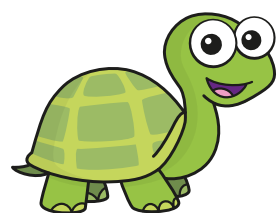
The answer is 3.8000

a) What mistake has Tiny made?

_____

_____

b) Work out the correct answer.

$3.8 \times 1{,}000 = $ ☐

6 Complete the multiplications.

a) $4.7 \times 10 = $ ☐

$4.7 \times 100 = $ ☐

$4.7 \times 1{,}000 = $ ☐

b) $19.3 \times 10 = $ ☐

$19.3 \times 100 = $ ☐

$1{,}000 \times 19.3 = $ ☐

c) $5.84 \times 10 = $ ☐

$5.84 \times 100 = $ ☐

$5.84 \times 1{,}000 = $ ☐

d) $18.06 \times 10 = $ ☐

$100 \times 18.06 = $ ☐

$18.06 \times 1{,}000 = $ ☐

How did you work out the answers?

Talk to a partner.

7 Complete the conversions.

a) 1.32 m = ☐ cm

b) £31.76 = ☐ p

c) 0.458 kg = ☐ g

d) 1.302 l = ☐ ml

8 Tommy is 1.4 m tall.

A tree is 10 times as tall as Tommy.

A building is 100 times as tall as Tommy.

a) How tall is the tree? ☐ m

b) How much taller is the building than the tree?

☐ m

9 Match the multiplications to the descriptions.

× 10 × 10		multiply by 10
× 10 × 10 × 10		
× 100 × 10		multiply by 100
× 10 × 100		
× 10 × 1		multiply by 1,000