

1 Work out the multiplications.

a)

H	T	O	Tth	Hth
		3	7	

3.7×10

b)

H	T	O	Tth	Hth
	1	4	5	

14.5×10

c)

H	T	O	Tth	Hth
		1	5	8

1.58×10

d)

H	T	O	Tth	Hth
	1	3	0	6

13.06×10

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

2 Work out the multiplications.

- | | |
|---------------------|----------------------|
| a) 1.7×10 | d) 13.4×10 |
| b) 1.75×10 | e) 10×13.04 |
| c) 1.73×10 | f) 130.4×10 |

3 Work out the multiplications.

a)

H	T	O	Tth	Hth
		4	1	

4.1×100

b)

H	T	O	Tth	Hth
		4	1	5

4.15×100

c)

H	T	O	Tth	Hth
	1	4	5	

14.5×100

d)

H	T	O	Tth	Hth
		4	0	5

4.05×100

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

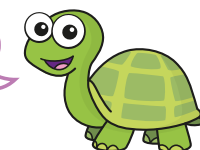
4 Work out the multiplications.

- | | |
|----------------------|-----------------------|
| a) 7.2×100 | d) 1.89×100 |
| b) 3.4×100 | e) 73.57×100 |
| c) 19.5×100 | f) 1.317×100 |

5 Tiny has multiplied 3.8 by 1,000

- a) What mistake has Tiny made?
b) Work out the correct answer.

The answer
is 3.8000



6 Work out the multiplications.

- | | |
|---------------------|----------------------|
| a) 4.7×10 | c) 5.84×10 |
| 4.7×100 | 5.84×100 |
| $4.7 \times 1,000$ | $5.84 \times 1,000$ |
| b) 19.3×10 | d) 18.06×10 |
| 19.3×100 | 100×18.06 |
| $1,000 \times 19.3$ | $18.06 \times 1,000$ |

How did you work out the answers?

Talk to a partner.

c)

H	T	O	Tth	Hth
	1	4	5	

14.5×100

d)

H	T	O	Tth	Hth
		4	0	5

4.05×100

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



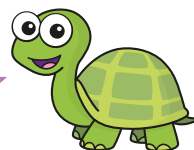
4 Work out the multiplications.

- | | |
|----------------------|-----------------------|
| a) 7.2×100 | d) 1.89×100 |
| b) 3.4×100 | e) 73.57×100 |
| c) 19.5×100 | f) 1.317×100 |

5 Tiny has multiplied 3.8 by 1,000

- a) What mistake has Tiny made?
b) Work out the correct answer.

The answer
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6 Work out the multiplications.

- | | |
|---------------------|----------------------|
| a) 4.7×10 | c) 5.84×10 |
| 4.7×100 | 5.84×100 |
| $4.7 \times 1,000$ | $5.84 \times 1,000$ |
| b) 19.3×10 | d) 18.06×10 |
| 19.3×100 | 100×18.06 |
| $1,000 \times 19.3$ | $18.06 \times 1,000$ |

How did you work out the answers?

Talk to a partner.



7 Complete the conversions.

- | | |
|--|---|
| a) $1.32 \text{ m} = \boxed{} \text{ cm}$ | c) $0.458 \text{ kg} = \boxed{} \text{ g}$ |
| b) $\text{£}31.76 = \boxed{} \text{ p}$ | d) $1.302 \text{ l} = \boxed{} \text{ ml}$ |



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



9 Match the multiplications to the descriptions.

$\times 10 \times 10$	multiply by 10
$\times 10 \times 10 \times 10$	
$\times 100 \times 10$	multiply by 100
$\times 10 \times 100$	
$\times 10 \times 1$	multiply by 1,000

