1 Complete the multiplications.

a)

H	T	O	Tths	Hths
		3	7	

$3.7 \times 10 = \boxed{}$

b)

H	T	O	Tths	Hths
	1	4	5	

$14.5 \times 10 = \boxed{}$

c)

H	T	O	Tths	Hths
		1	5	8

$1.58 \times 10 = \boxed{}$

d)

H	T	O	Tths	Hths
	1	3	0	6

$13.06 \times 10 = \boxed{}$

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

2 Complete the multiplications.

a) 1.7×10 **c)** 1.73×10 **e)** 10×13.04

b) 1.75×10 **d)** 13.4×10 **f)** 130.4×10

3 Complete the multiplications.

a)

H	T	O	Tths	Hths
		4	1	

$4.1 \times 100 = \boxed{}$

b)

H	T	O	Tths	Hths
		4	1	5

$4.15 \times 100 = \boxed{}$

c)

H	T	O	Tths	Hths
	1	4	5	

$14.5 \times 100 = \boxed{}$

d)

H	T	O	Tths	Hths
		4	0	5

$4.05 \times 100 = \boxed{}$

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

4 Complete the calculations.

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 Amir has multiplied 3.8 by 1,000

> The answer is 3.8000

a) What mistake has Amir made?

b) Work out the correct answer.

6 Complete 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	•	Tths	Hths
	1	4	•	5	

14.5 × 100 =

d)

H	T	O	•	Tths	Hths
		4	•	0	5

4.05 × 100 =

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

4 Complete the calculations.

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 Amir has multiplied 3.8 by 1,000

The answer is 3.8000

a) What mistake has Amir made?

b) Work out the correct answer.

6 Complete the multiplications.

a) 4.7 × 10   c) 5.84 × 10

   4.7 × 100   5.84 × 100

   4.7 × 1,000   5.84 × 1,000

b) 19.3 × 10   d) 18.06 × 10
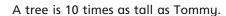
   19.3 × 100   100 × 18.06

   1,000 × 19.3   18.06 × 1,000

How did you work out the answers? Talk to a partner.

7 Complete the calculations.

a) 7.7 × ☐ = 770   e) 8.032 × ☐ = 80.32

b) ☐ × 10 = 1,950   f) ☐ × 18.3 = 1,830

c) 11.5 × ☐ = 115   g) 195.32 × ☐ = 1,953.2

d) ☐ × 11.5 = 11,500   h) ☐ × 1,000 = 7,200

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.

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