1 Work out the multiplications.

You may use the place value charts to help you.

a)

Th	H	T	O
			7

7×10

b)

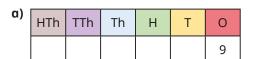| Th	H	T	O
		3	9

39×10

c)

Th	H	T	O
	2	0	5

205×10

d) What happens to the digits when you multiply by 10?

2 Complete the multiplication sentences.

a) $9 \times 10 =$ ☐

b) $54 \times 10 =$ ☐

c) $10 \times 13 =$ ☐

d) $126 \times 10 =$ ☐

e) ☐ $\times 10 = 320$

f) $10 \times$ ☐ $= 1{,}350$

g) $20 \times 10 =$ ☐

h) ☐ $\times 10 = 5{,}000$

3 Multiply each number by 100 and then by 1,000

You may use the place value charts to help you.

a)

HTh	TTh	Th	H	T	O
					9

9×100

$9 \times 1{,}000$

b)

HTh	TTh	Th	H	T	O
				1	6

16×100

$16 \times 1{,}000$

c)

HTh	TTh	Th	H	T	O
			2	4	5

245×100

$245 \times 1{,}000$

d) Explain to a partner how you multiply a number by 100

Ask them to explain how to multiply by 1,000

4 Work out the multiplications.

a) 45×100 **b)** 612×100 **c)** 41×10 **d)** 10×952

52×100 715×100 41×100 100×952

70×100 720×100 $41 \times 1{,}000$ $1{,}000 \times 952$

5 Write <, > or = to make the statements true.

a) 78×10 ◯ 78×100 **c)** 930×10 ◯ 100×93

b) 100×56 ◯ 65×100 **d)** $1{,}000 \times 482$ ◯ 482×100

6

> $54 \times 1{,}000$ is the same as $54 \times 10 \times 10 \times 10$

Is Whitney correct?

Explain how you know.

3 Multiply each number by 100 and then by 1,000

You may use the place value charts to help you.

a)

HTh	TTh	Th	H	T	O
					9

9 × 100

9 × 1,000

b)

HTh	TTh	Th	H	T	O
				1	6

16 × 100

16 × 1,000

c)

HTh	TTh	Th	H	T	O
			2	4	5

245 × 100

245 × 1,000

d) Explain to a partner how you multiply a number by 100

Ask them to explain how to multiply by 1,000

4 Work out the multiplications.

a) 45 × 100 **b)** 612 × 100 **c)** 41 × 10 **d)** 10 × 952
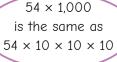
   52 × 100   715 × 100   41 × 100   100 × 952

   70 × 100   720 × 100   41 × 1,000   1,000 × 952

5 Write <, > or = to make the statements true.

a) 78 × 10 ◯ 78 × 100 **c)** 930 × 10 ◯ 100 × 93

b) 100 × 56 ◯ 65 × 100 **d)** 1,000 × 482 ◯ 482 × 100

6

> 54 × 1,000
> is the same as
> 54 × 10 × 10 × 10

Is Whitney correct?

Explain how you know.

7 Complete the multiplication sentences.

a) 52 × ☐ = 5,200   **f)** ☐ × 370 = 3,700

b) 95 × ☐ = 950   **g)** ☐ × 100 = 8,200

c) 136 × ☐ = 1,360   **h)** ☐ × 100 = 82,000

d) 272 × ☐ = 272,000 **i)** ☐ × 10 = 39,000

e) 6,200 = ☐ × 62   **j)** 1,000 × ☐ = 80,000

8 Ron and Dani have paper rounds.

Ron delivers 75 papers a month.

Dani delivers 10 times as many papers a month as Ron.

How many papers do they deliver altogether?

9 Mrs Hall owns a bookshop.

- In January, she sold 145 books.
- In February, she sold 10 times as many books.
- In March, she sold 10 times as many books as in February.

How many books did Mrs Hall sell in March?

Show your workings.

Compare answers with a partner.

10 Amir thinks of a number.

- He multiplies the number by 100
- The answer has the same digit in the thousands and hundreds columns.
- The total of all the digits is 8

What could the number be?