Multiply a 2-digit number by a 2-digit number

1 Complete the multiplications.

a) 6 × 6 = ☐

6 × 60 = ☐

b) 12 × 8 = ☐

12 × 80 = ☐

c) 32 × 3 = ☐

32 × 30 = ☐

d) 21 × 4 = ☐

21 × 40 = ☐

How did you work out your answers?

2 Scott is working out 23 × 14

Use the area model to help complete Scott's workings.

×	10	4
20	200	80
3	30	12

200 + 30 + 80 + 12 = 322

			2	3	
	×		1	4	
					(23 × 4)
					(23 × 10)

3 Fill in the missing numbers.

a)

			4	3	
	×		1	3	
		1_1	2	9	(43 × 3)
		4	3	0	(43 × 10)

b)

			2	1	
	×		1	6	
		1_1	2	6	
		2	1	0	

(☐ × ☐)

(☐ × ☐)

c)

	×				
		1	0	5	(21 × 5)
		4	2	0	(21 × 20)

4 Tiny is calculating 34 × 23

Here are Tiny's workings.

$$\begin{array}{rr} & 3\ 4 \\ \times & 2\ 3 \\ \hline 1_1 & 0_1\ 2 \\ & 6\ 8 \\ \hline 1 & 7_1\ 0 \end{array}$$

a) What mistake has Tiny made?

b) What is the correct answer?

5 Work out the multiplications.

a) 52 × 34 = ☐

c) 46 × 64 = ☐

b) 22 × 56 = ☐

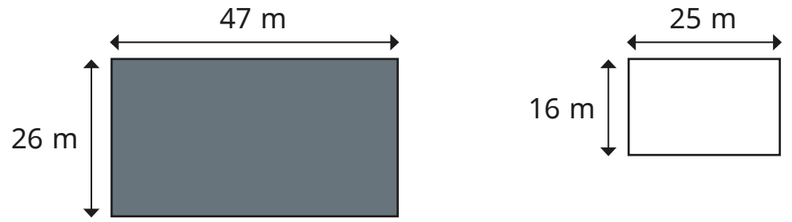
d) 47 × 63 = ☐

6 A machine prints 92 labels every minute.

How many labels will it print in three-quarters of an hour?

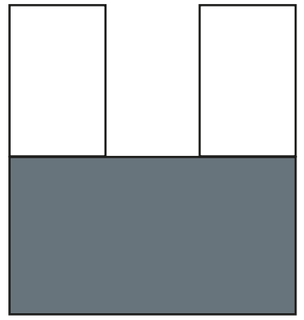
☐

7 Here are two rectangles.



a) This compound shape is made using one of the grey rectangles and two of the white rectangles.

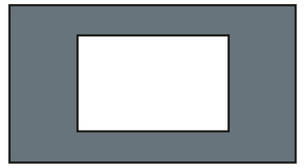
What is the area of the compound shape?



☐ m^2

b) The white rectangle is placed on top of the grey rectangle to leave a shaded part.

What is the area of the shaded part?



☐ m^2

Compare methods and answers with a partner.

What is the same and what is different?