Multiply 2-digits by 2-digits

1 Complete the multiplications.

a) 6 × 6 = 36

6 × 60 = 360

b) 12 × 8 = 96

12 × 80 = 960

c) 32 × 3 = 96

32 × 30 = 960

d) 7 × 9 = 63

7 × 90 = 630

e) 21 × 4 = 84

21 × 40 = 840

f) 48 × 3 = 144

48 × 30 = 1,440

How did you work out your answers?

2 Fill in the missing numbers.

a)

			4	3	
	×		1	3	
		1_1	2	9	
		4	3	0	
		5	5	9	

(43 × 3)

(43 × 10)

b)

			2	1	
	×		1	6	
		1_1	2	6	
		2	1	0	
		3	3	6	

(21 × 6)

(21 × 10)

c)

			2	1	
	×		2	5	
		1	0	5	
		4	2	0	
		5	2	5	

(21 × 5)

(21 × 20)

3 Mo is calculating 34 × 23

Here is his working.

$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 102_{11} \\ 68 \\ \hline 170_{1} \end{array}$$

What mistake has Mo made?

What is the correct answer?

You may use the blank grid for your workings.

		3	4		
×		2	3		
	1	0	2		
	6	8	0		
	7	8	2		

4 Work out the multiplications.

a) 52 × 34 = 1,768

c) 46 × 64 = 2,944

b) 22 × 56 = 1,232

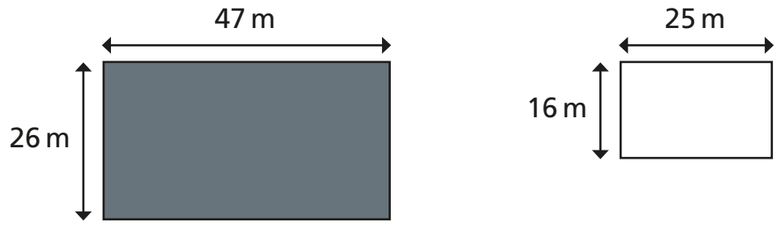
d) 47 × 63 = 2,961

5 A machine prints 92 labels every minute.

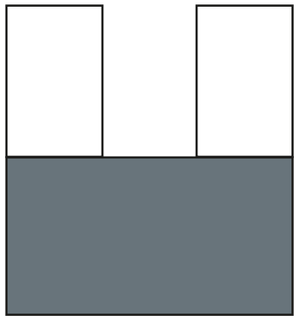
How many labels will it print in three-quarters of an hour?

4,140

6 Here are two rectangles.

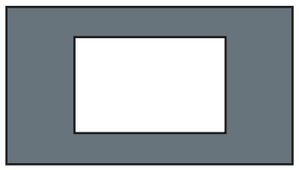


a) What is the area of this compound shape?



2,022 m²

b) What is the area of the shaded part?



822 m²

Compare methods and answers with a partner.
What is the same and what is different?