07.01.21

LO: Multiply 2-digits by 2-digits.

White Rose Maths

1 Complete the multiplications.

a) $6 \times 6 =$ ▢

$6 \times 60 =$ ▢

b) $12 \times 8 =$ ▢

$12 \times 80 =$ ▢

c) $32 \times 3 =$ ▢

$32 \times 30 =$ ▢

d) $7 \times 9 =$ ▢

$7 \times 90 =$ ▢

e) $21 \times 4 =$ ▢

$21 \times 40 =$ ▢

f) $48 \times 3 =$ ▢

$48 \times 30 =$ ▢

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**

(43×3)
(43×10)

c)

×			
	1	0	5
	4	2	0

(21×5)
(21×20)

b)

		2	1
×		1	6
1_1	2	6
2	1	0

$(▢ \times ▢)$
$(▢ \times ▢)$

3 Mo is calculating 34×23

Here is his working.

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

What mistake has Mo made?

What is the correct answer?

You may use the blank grid for your workings.

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4 Work out the multiplications.

a) 52 × 34 = ⬚

c) 46 × 64 = ⬚
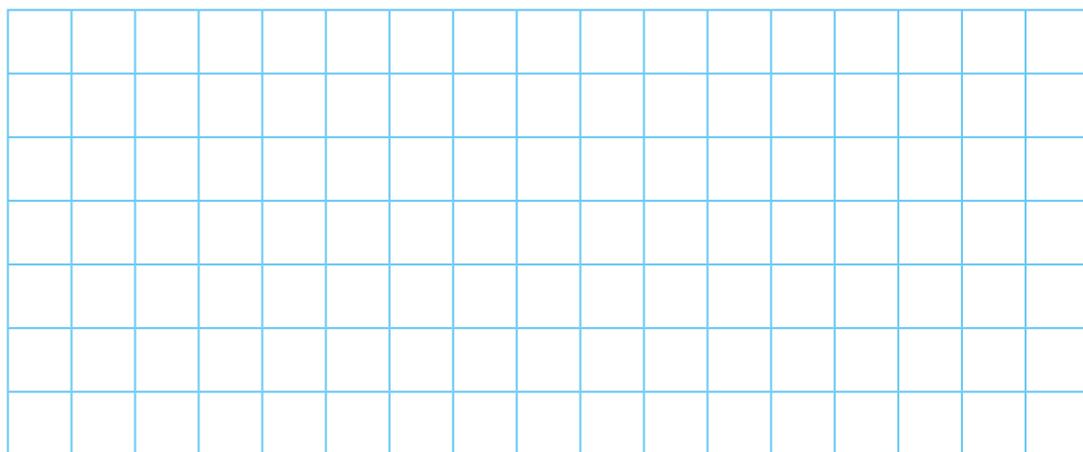
b) 22 × 56 = ⬚

d) 47 × 63 = ⬚
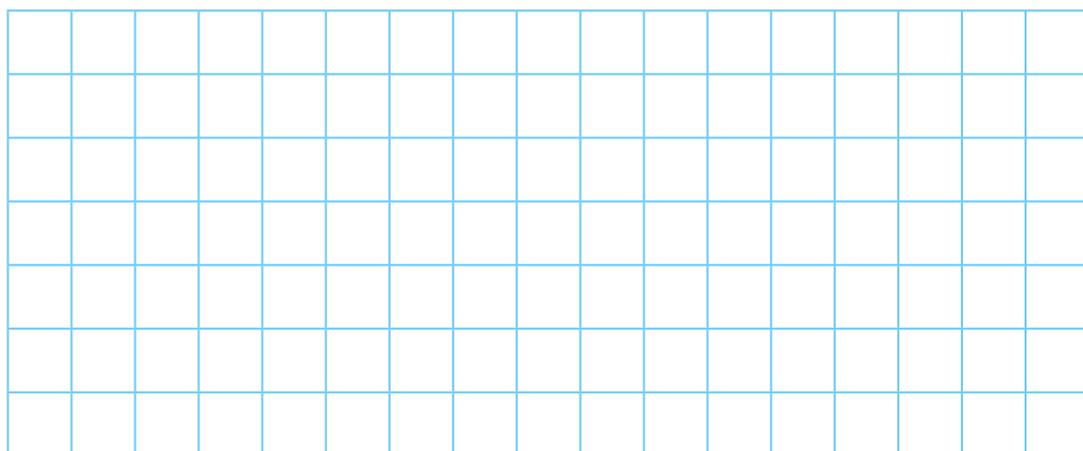
5 A machine prints 92 labels every minute.

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

⬚

6 Here are two rectangles.

47 m

25 m

26 m

16 m
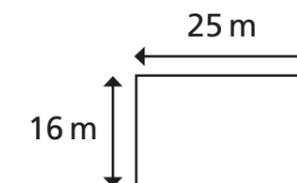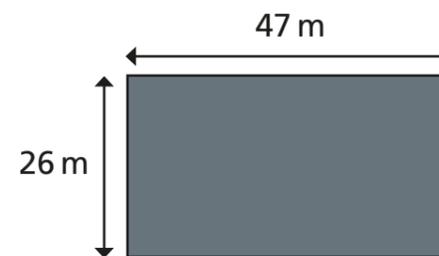
a) What is the area of this compound shape?

⬚
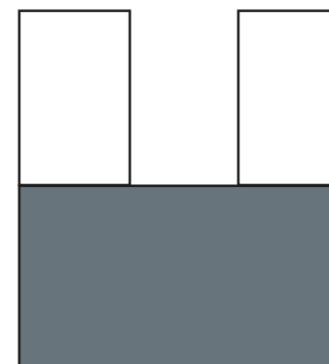
b) What is the area of the shaded part?

⬚

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

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Extension:

Complete the calculation to work out 23 × 14

		2	3
×		1	4
		9	2	(23 × 4)
	2	3	0	(23 × 10)

Use this method to calculate:

34 × 26   58 × 15   72 × 35

Complete to solve the calculation.

		4	6
×		2	7
	3	2	2	(___ × ___)
	9	2	0	(___ × ___)

Use this method to calculate:

27 × 39   46 × 55   94 × 49

Calculate:

| 38 × 12 | 39 × 12 | 38 × 11 |

What's the same? What's different?

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Use your **purple pen**:

Answer the following questions:

1. Why is the **zero** important in multiplication?

2. If we know what 38 × 12 is equal to, how else could we work out 39 × 12?