

Use the grid method to answer these questions

$$43 \times 22 =$$

$$13 \times 15 =$$

$$23 \times 39 =$$

$$45 \times 12 =$$



Remember to look at the digits to decide how many lines to put vertically and horizontally.



Can you answer this question using the grid method 132×45 ?

RECALL


Work out the multiplications.

a) 52×34

b) 22×56

c) 46×64

d) 47×63

 Remember to set out the work properly so you don't get your place value columns mixed up

 Create a step by step guide explaining what to do.

**GUIDED
PRACTICE**

LO: multiplying 2 digit by 2 digit numbers

Some will even answer questions out of context (area).

Some will spot patterns and spot mistakes.

Most will answer word problems.

All will answer number problems.

LEARNING HABIT RESILIENCE. |

Use the method you saw in guided practice to answer these following questions



$60 \times 60 =$

$30 \times 30 =$

$15 \times 15 =$



$22 \times 66 =$

$44 \times 55 =$

$66 \times 44 =$



$11 \times 19 =$

$33 \times 38 =$

$99 \times 57 =$



Remember to carry on the remainders



Do you notice a pattern in each of the chillis?

**INTELLIGENT
PRACTICE.**

Dive deeper 1

A machine prints 92 labels every minute. How many labels will it print in three quarters of an hour?

A man plants 33 trees every year for 45 years. How many trees did he plant altogether?

Dive deeper 2

Calculate:

$$38 \times 12$$

$$39 \times 12$$

$$38 \times 11$$

What's the same? What's different?

Tommy says,

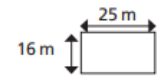
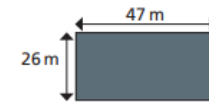
It is not possible to make 999 by multiplying two 2-digit numbers.



Do you agree?
Explain your answer.

Dive deeper 3

Here are two rectangles.



a) What is the area of this compound shape?



b) What is the area of the shaded part?



For the second question on dive deeper 2 you may need to try trial and error to get the answer



For Dive deeper 3 which is the most difficult question to answer a or b?

DIVE DEEPER

Dive deeper 1

A machine prints 92 labels every minute. How many labels will it print in three quarters of an hour?

4,140

A man plants 33 trees every year for 45 years. How many trees did he plant altogether?

1,485

Dive deeper 2

Calculate:

$$38 \times 12$$

$$39 \times 12$$

$$38 \times 11$$

What's the same? What's different?

They are similar because the answers are all 3 digit numbers. They all have a 4 in the hundreds column. They are different because the tens and units are the different.

Tommy says,



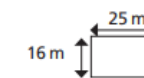
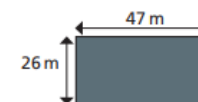
It is not possible to make 999 by multiplying two 2-digit numbers.

Do you agree?
Explain your answer.

Tommy is incorrect $27 \times 37 = 999$

Dive deeper 3

Here are two rectangles.



a) What is the area of this compound shape?



b) What is the area of the shaded part?



$$A = 2,022 \text{ cm}^2$$

$$B = 822 \text{ cm}^2$$



For the second question on dive deeper 2 you may need to try trial and error to get the answer



For Dive deeper 3 which is the most difficult question to answer a or b?

DIVE DEEPER ANSWERS