

Use the method we learnt yesterday to answer these questions

$$12 \times 12 =$$

$$32 \times 15 =$$

$$19 \times 27 =$$



Remember to include the remainders in your final answer.



Put the answers in ascending order.

**RECALL**

Work out the multiplications.

a)  $142 \times 31$

b)  $337 \times 46$

c)  $214 \times 53$

d)  $24 \times 183$

 Remember to include the remainders.

 But all the answers in descending order.

**GUIDED  
PRACTICE**

LO: multiplying 3 digit by 2 digit numbers

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

Some will spot patterns.

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



$$226 \times 45 =$$

$$113 \times 90 =$$



$$505 \times 23 =$$

$$610 \times 32 =$$



$$560 \times 98 =$$

$$280 \times 49 =$$



make sure not to get your place value columns mixed up



Do you notice a pattern in each of the chillis?

**INTELLIGENT  
PRACTICE.**

## Dive deeper 1

Pencils come in boxes of 64  
A school bought 270 boxes.  
Rulers come in packs of 46.  
A school bought 720 packs.  
How many more rulers were ordered  
than pencils?



A football pitch is 128 m long and 52 m wide.

- a) What is the area of the pitch?
- b) A field is 25,000 m<sup>2</sup>.

How many football pitches could fit in it?

## Dive deeper 2

$$22 \times 111 = 2442$$

$$23 \times 111 = 2553$$

$$24 \times 111 = 2664$$

What do you think the answer to  
 $25 \times 111$  will be?

What do you notice?

Does this always work?

## Dive deeper 3

Some children are asked to work out  $308 \times 19$

- a) Which is the best estimate to use to check their answers?

Work out the answer to your estimate.

$300 \times 10$

$300 \times 20$

$310 \times 20$

$300 \times 19$

- b) Explain the reasons for your choice.

- c) Here are answers given by three children.

Nijah 28,028

Filip 5,852

Whitney 2,080

From your estimate, who do you think is correct?

- d) Work out the correct answer.
- e) What mistakes might the others have made?



Look at the key information in each of the question



Which is the most difficult question? Explain why.

# DIVE DEEPER

## Dive deeper 1

Pencils come in boxes of 64  
A school bought 270 boxes.  
Rulers come in packs of 46.  
A school bought 720 packs.  
How many more rulers were ordered  
than pencils?



They have 17,280 pencils. They have 33,120 rulers. They have 15,840 more rulers.

A football pitch is 128 m long and 52 m wide.

- What is the area of the pitch?
- A field is 25,000 m<sup>2</sup>.

How many football pitches could fit in it?

- 6,656 cm<sup>2</sup>
- 3 pitches

## Dive deeper 2

$$22 \times 111 = 2442$$

$$23 \times 111 = 2553$$

$$24 \times 111 = 2664$$

What do you think the answer to  
 $25 \times 111$  will be?

What do you notice?

Does this always work?

The pattern stops  
at up to  $28 \times 111$   
because  
exchanges need to  
take place in the  
addition step.

## Dive deeper 3

Some children are asked to work out  $308 \times 19$

- Which is the best estimate to use to check their answers?

Work out the answer to your estimate.

$300 \times 10$

$300 \times 20$

$310 \times 20$

$300 \times 19$

- Explain the reasons for your choice.

- Here are answers given by three children.

Nijah 28,028

Filip 5,852

Whitney 2,080

From your estimate, who do you think is correct?

- Work out the correct answer.

- What mistakes might the others have made?

- $310 \times 20$
- Because there the nearest numbers when you round to the nearest 10
- Filip
- 5,852
- Nijah may have added an extra digit somewhere. Whitney may have rounded to 10 instead of 20

# DIVE DEEPER



Look at the key information in each of the question



Which is the most difficult question? Explain why.