## Lesson Approach

This lesson uses patterns in the 3 times table to help pupils commit the 3 times table to memory easily.

To begin this lesson, show pupils the picture from the In Focus task and ask them how the cupcakes are arranged. They are arranged in 2 rows of 3 , therefore, we write it as $2 \times 3=6$. Explain that $2 \times 3$ means 2 rows of 3. Ask pupils how they would work out $3 \times 3$ if we know $2 \times 3=6$. Draw another row of 3 cupcakes beneath the first 2 rows. Now we have 3 rows of 3 , which can be written as $3 \times 3=9$. Support pupils by explaining that $3 \times 3$ means 1 more row of 3 , so if we know $2 \times 3=6$, then $3 \times 3$ is 6 plus another row of 3 , which is 9 . This will help pupils see that in the 3 times table, the next number is always 3 more than the previous one. Therefore, if they know $3 \times 3=9$, they can find $4 \times 3$ by adding 3 to 9 .

The other strategy pupils can learn is the doubling of groups. If 1 group of 3 is $1 \times 3=3$, then 2 groups of 3 will be $3+3=6$. What is 4 groups of 3 ? Help pupils to see that 4 is double of 2 , so if $2 \times 3$ is 6 , then $4 \times 3$ is the same as $6+6=12$. Guide them to realise that this strategy applies to all the times tables.

During Guided Practice, pupils are practising the two strategies and completing a number sequence for the 3 times table.

## Maths Drill

1) Put these numbers in ascending order:

$$
323,443,333,411,400
$$

2) What is the next number in the sequence?

$$
52,55, ?, 61,64, ?, 70
$$

3) Haroon ordered the following numbers. What will be the fourth number?

Challenge:
Put the symbol < > or = :

## $2 \times 8$ _ $3 \times 4$

## $3 \times 3 \quad 2 \times 4$

## $3 \times 5 \_2 x 6$

## Number of the Day

## 369



## Multiplying by 3

- To be able to understand and learn the 3 times table
- Make equal groups of 3
- Draw pictures to represent grouping
- Counting
- Number-lines
- Base ten


## In Focus

Can we draw more cupcakes to find our answer?


2 rows of 3
$2 \times 3=6$

If we know $2 \times 3=6$, how can we tell what $3 \times 3$ is?

## Let's Learn

$3 \times 3=9$ and $6+3=9$

How can we transfer this knowledge to help find the missing number for question 2 ?

What is $4 \times 3$ ?
How many do you need to add to 9 to make the answer?

## Guided Practice

Guided Practice
Write the missing numbers.


## Use the pictures to help you answer the questions.



## Guided Practice Answer

Guided Practice
Write the missing numbers.

(2) $2 \times 3=6$
$4 \times 3=12$
$8 \times 3=24$
$9 \times 3=24+3=27$
(3) Complete the number pattern.


$$
3,6,9,12,15,18,21,24,27,30
$$

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## Worksheet 2

Multiplying by 3
(1) Fill in the blanks.

Complete the pages in your Maths No Problem books.
(a)

(2) Fill in the blanks.
(a) $\square$
$\square$ 18
(b) $\square$
$\square$ .9
(c)
$\square$ 24. $\square$ 30
(d) $\square$ 24, 21, 18

3 Match


-
-

-

-

## 24

$\square$

## Answers

Use a green pen to self mark your work.

Worksheet 2
Multiplying by 3
(1) Fill in the blanks.

(2) Fill in the blanks.
(a) $3,6,9,12,18$
(b) 21, 18, $15,12,9$
(c) $18,21,24,27,30$

(3) Match.


## Extension



## Extension

Use a green pen to self mark your work.


