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 2×3 means 2 rows of 3. Ask pupils how they would work out 3×3 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 3×3 means 1 more row of 3, so if we know $2 \times 3 = 6$, then 3×3 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 4×3 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 2×3 is 6, then 4×3 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:

2) What is the next number in the sequence?

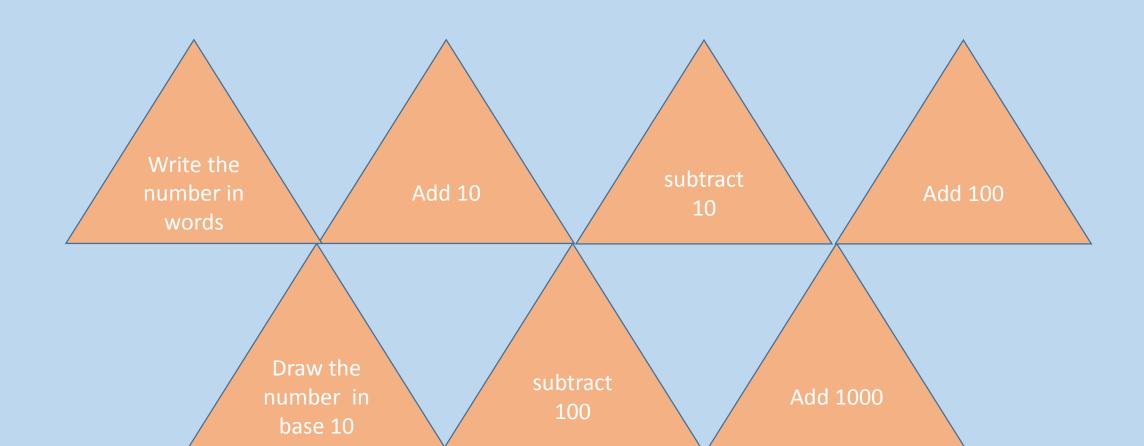
3) Haroon ordered the following numbers. What will be the fourth number?

Challenge:

Put the symbol < > or = :

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?

In Focus

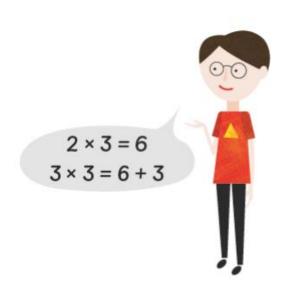


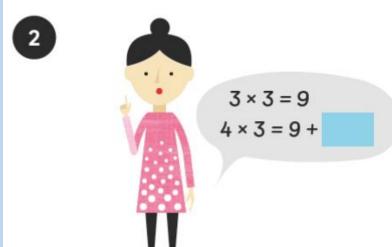
$$2 \text{ rows of } 3$$

 $2 \times 3 = 6$

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









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

What is 4x3? How many do you need to add to 9 to make the answer?

Guided Practice

Use the pictures to help you answer the questions.

Guided Practice

Write the missing numbers.







$$\Theta \Theta \Theta$$























3 Complete the number pattern.

3, 6, 9, 12, 15, , , , , 24,

Guided Practice Answer:

Guided Practice

Write the missing numbers.





$$\Theta \Theta \Theta$$

$$\Theta \Theta \Theta$$













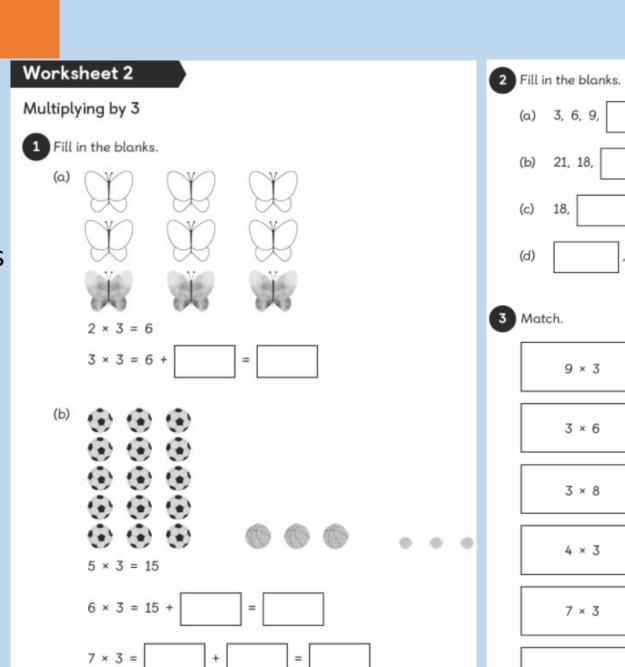


 $2 \times 3 = 6$

- Complete the number pattern.
 - 3, 6, 9, 12, 15, **18** , **21** , 24, **27** , 30

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Complete the pages in your Maths No Problem books.



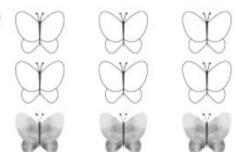
(a) 3, 6, 9, , 18 (b) 21, 18, 9 , 30 (c) 24, (d) 24, 21, 18 3 Match. 9×3 18 3×6 21 3×8 15 4 × 3 27 7×3 24 3×5 12

Use a green pen to self mark your work.



1 Fill in the blanks.





$$2 \times 3 = 6$$

(b)



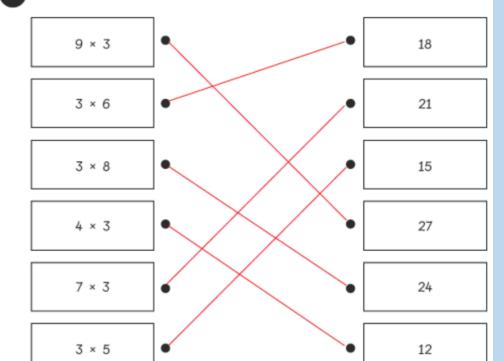






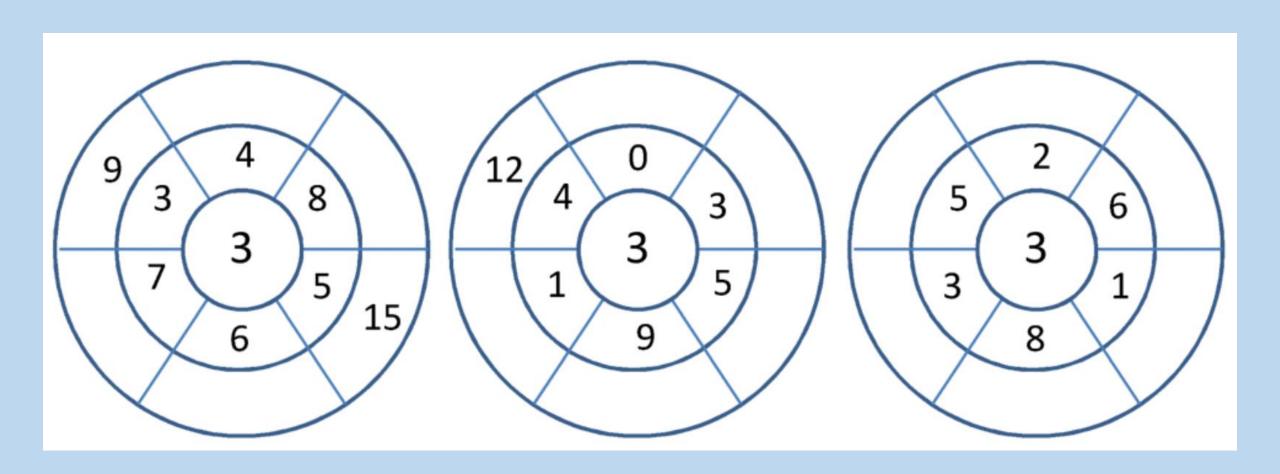
2 Fill in the blanks.

3 Match.



Extension







Use a green pen to self mark your work.

