Disclaimer

We hope you find the information on our website and resources useful.

Animations

This resource has been designed with animations to make it as fun and engaging as possible. To view the content in the correct formatting, please view the PowerPoint in 'slide show mode'. This takes you from desktop to presentation mode. If you view the slides out of 'slide show mode', you may find that some of the text and images overlap each other and/or are difficult to read.

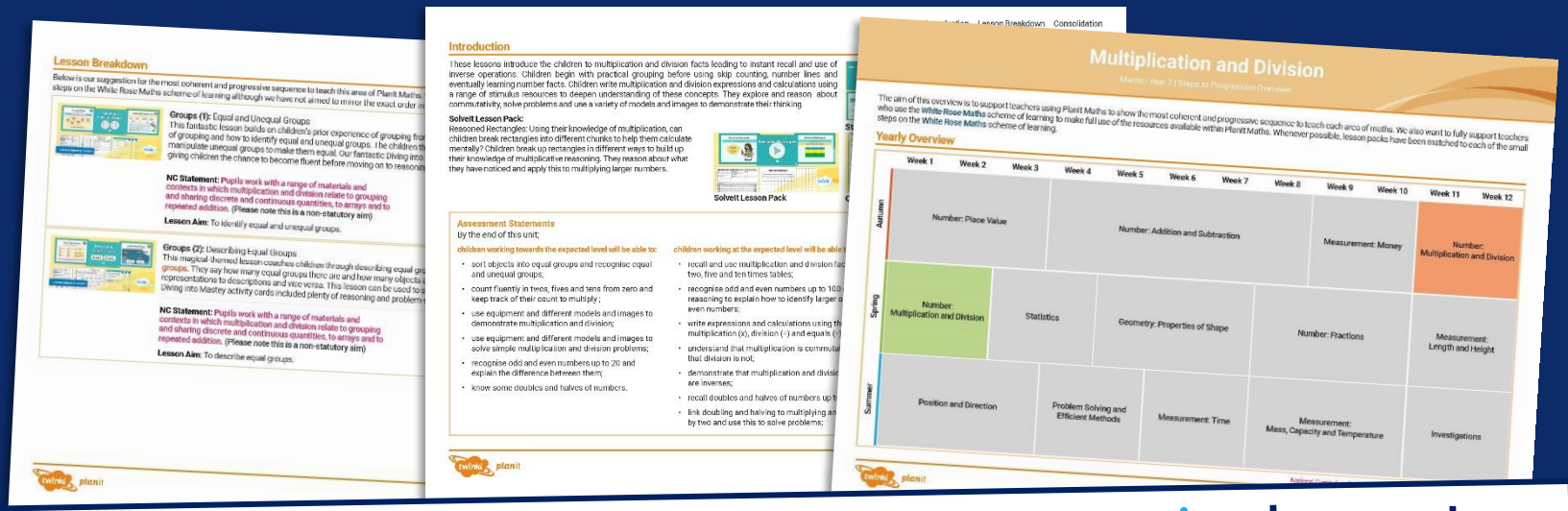
To enter slide show mode, go to the **slide show menu tab** and select either **from beginning or from current slide**.

You may wish to delete this slide before beginning the presentation.

Maths

Multiplication and Division

Need a coherently planned sequence of lessons to complement this resource?



See our Multiplication and Division Steps to Progression document.

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.

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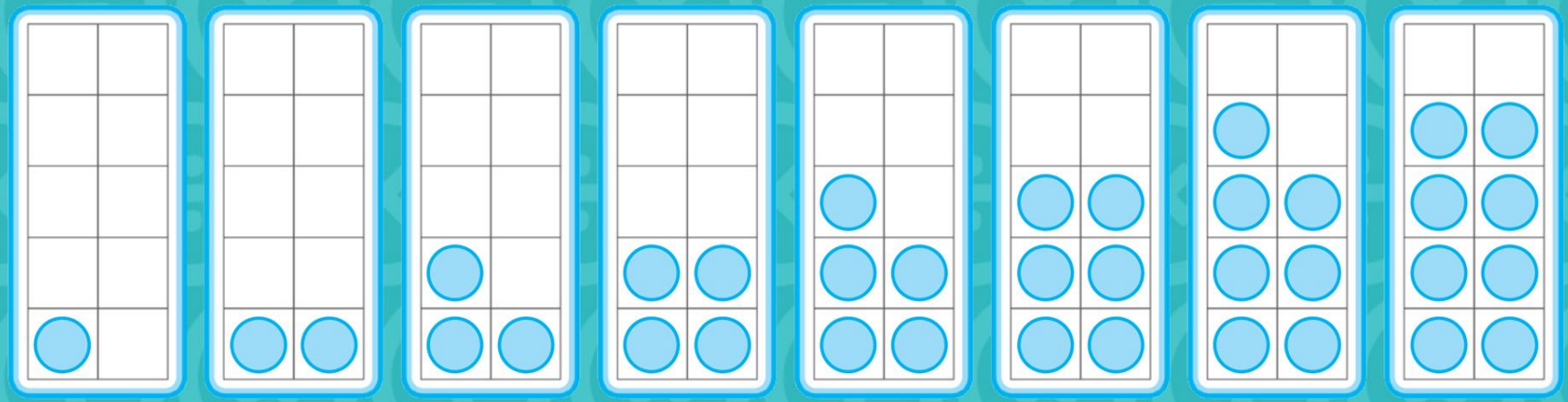
Odd and Even Numbers



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Approved

Aim

- To recognise odd and even numbers.

Success Criteria

- I can explain why a number is odd or even.
- I can identify larger odd and even numbers.
- I can look for patterns of odd and even numbers in the 2, 5 and 10 times tables.

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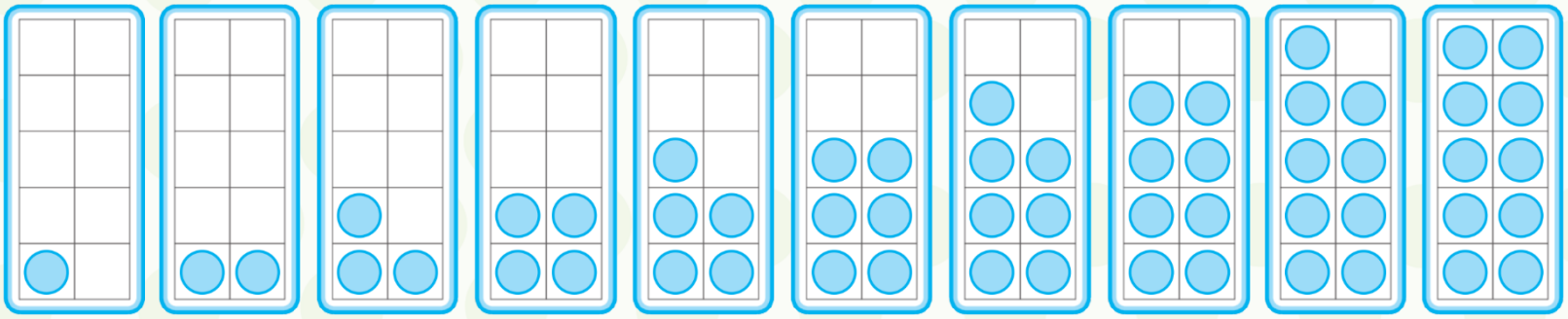
Remember It

Look carefully at how the numbers 1 to 10 are made.



What do you notice?

Explain why this happens.

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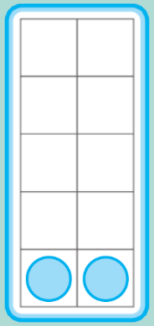
Remember It

Numbers that can be made from groups of 2 are **even numbers**.



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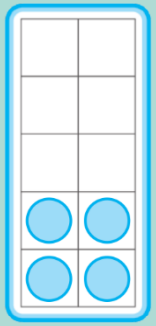

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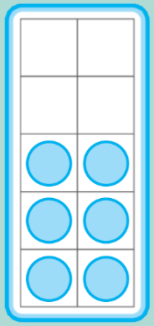

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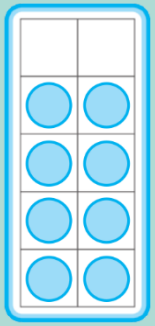

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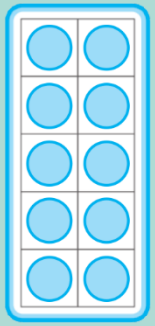
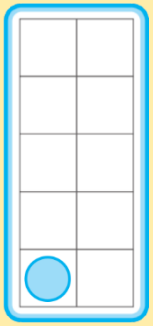


10

Numbers that can't be made from groups of 2 are **odd numbers**.



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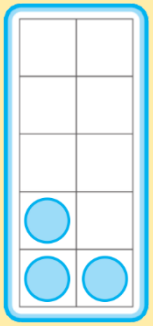

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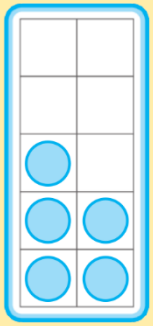

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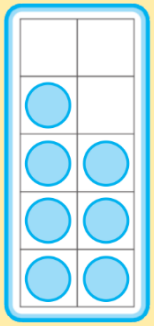

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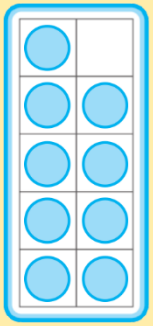

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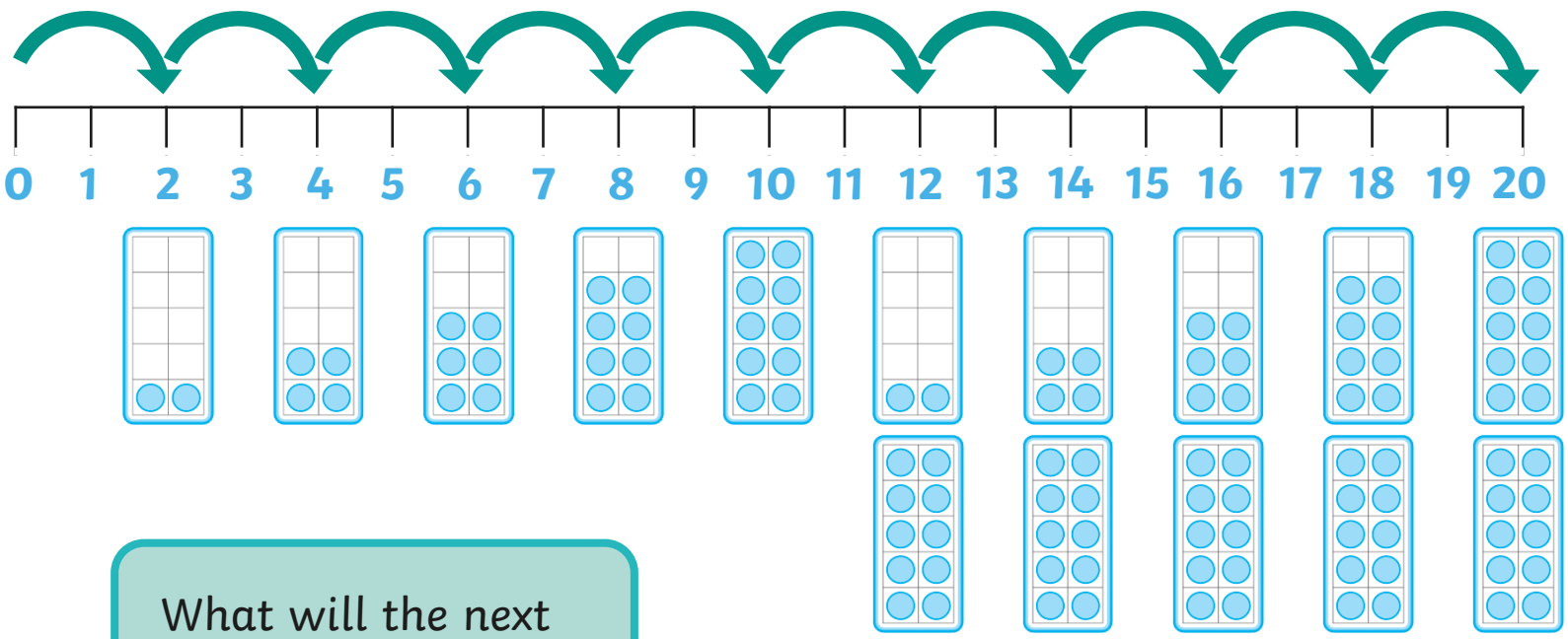
Skip Counting

Let's skip count together in **even** numbers.



What will the next **even** number be?
How do you know?

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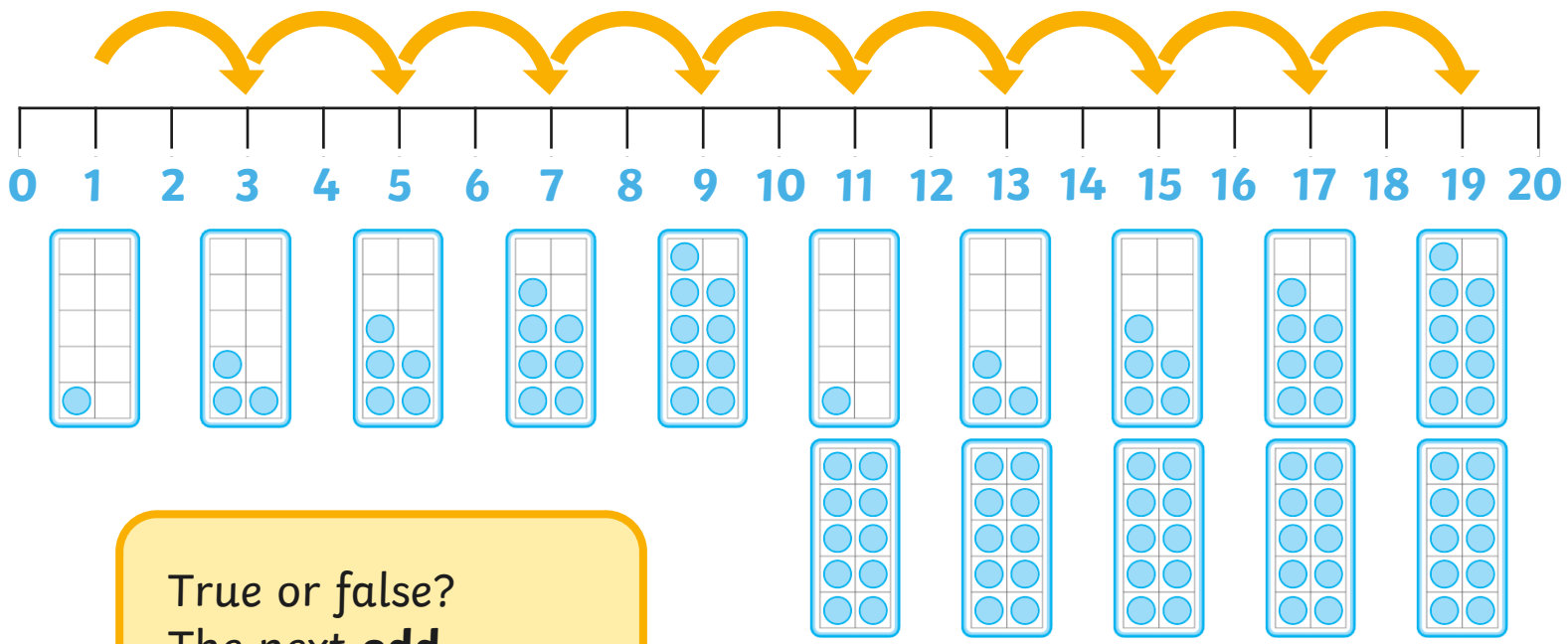
Skip Counting

Let's skip count together in **odd** numbers.



True or false?
The next **odd** number will be 23.
Convince me!

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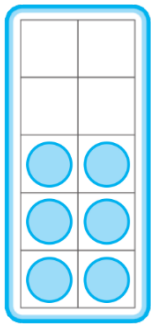
Larger Odd and Even Numbers

Let's investigate larger numbers to find out if they are **odd** or **even**.

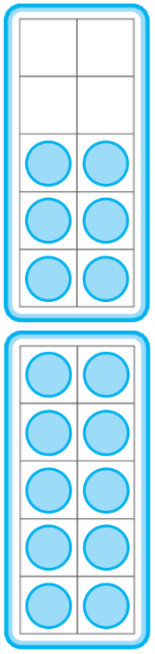
All these numbers are **even** because they can be made from groups of 2.

Can you think of more **even** numbers that have 6 ones?

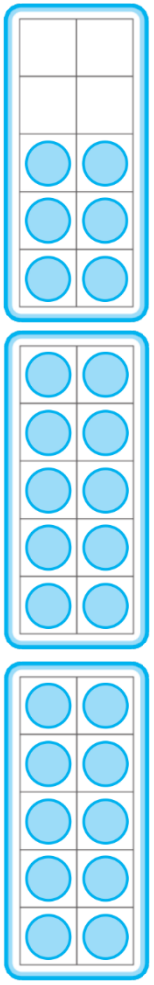
We know 6 is an **even** number. It can be made from groups of 2.



16 is **even** because the ones digit is even.



26 is **even** because the ones digit is even.



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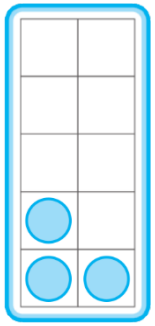
Larger Odd and Even Numbers

Let's investigate larger numbers to find out if they are **odd** or **even**.

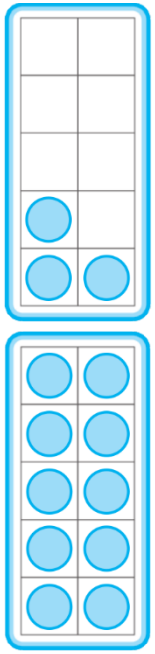
All these numbers are **odd** because they can't be made from groups of 2.

Can you think of more **odd** numbers that have 3 ones?

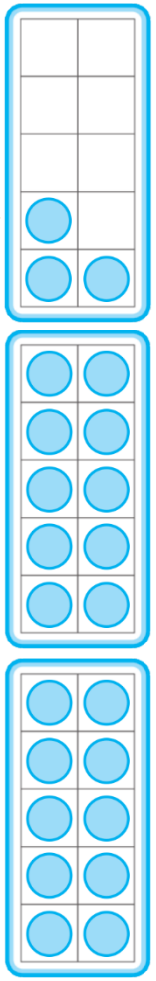
We know 3 is an **odd** number. It can't be made from groups of 2.



13 is **odd** because the ones digit is odd.



It is **odd** because the ones digit is odd.



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Larger Odd and Even Numbers

To find out if a larger number is odd or even, we look at the **ones digit**.

If the **ones digit is even** (0, 2, 4, 6 or 8) then the number is **even**.

Examples:

98 52

104

150 6

If the **ones digit is odd** (1, 5, 5, 7 or 9) then the number is **odd**.

Examples:

9 57

33

101 81

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Odd and Even Puzzles

Work with a partner to work out if these numbers are **odd** or **even**. Explain to each other how you know.

	odd	even
4, 16, 38, 50, 76		✓
67, 13, 5, 99, 61	✓	
3, 9, 11, 81, 55	✓	
100, 66, 50, 10		✓

Complete the number sequences. Are they **odd** or **even**?

22	24	26	28	30
79	77	75	73	71
43	45	47	49	51
100	98	96	94	92

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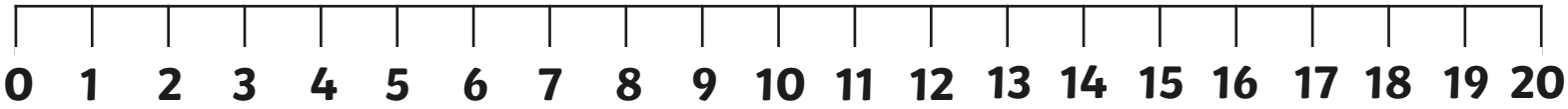
Multiples of 2, 5 and 10

Multiples of 2 are the products from the **2 times table**.
They are the numbers we say when we count in 2s.

Let's count in 2s together up to 20.



Which of these is correct?
The multiples of 2 are:

- all odd
- all even
- a mixture of odd and even

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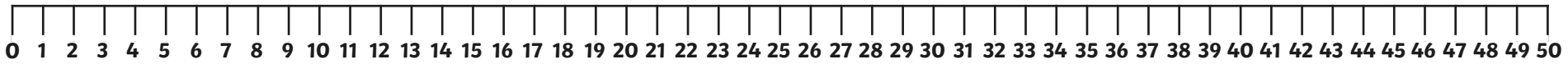
Multiples of 2, 5 and 10

Multiples of 5 are the products from the **5 times table**.
They are the numbers we say when we count in 5s.

Let's count in 5s together up to 50.



Which of these is correct?
The multiples of 5 are:

- all odd
- all even
- a mixture of odd and even

What pattern can you see?

The **ones digits** in the multiples of 5 are either 0 (which is **even**) or 5 (which is **odd**).

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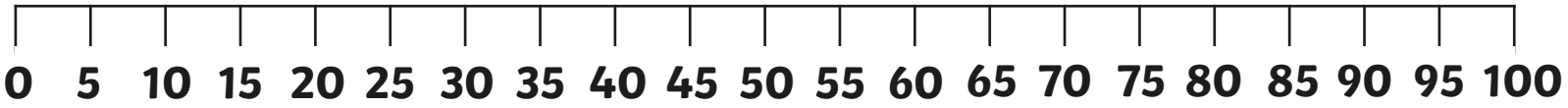
Multiples of 2, 5 and 10

Multiples of 10 are the products from the **10 times table**.
They are the numbers we say when we count in 10s.

Let's count in 10s together up to 100.



Which of these is correct?
The multiples of 10 are:

- all odd
- all even
- a mixture of odd and even

What do you notice about the multiples of 10?

The **ones digits** in the multiples of 10 are all 0 (which is **even**).

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True or False?

Discuss with your partner if these sentences are **true** or **false**.

4 is an odd number so 14 is an odd number.	false
Any number that ends in 8 is an even number.	true
All multiples of 5 are odd numbers.	false
To decide if a number is odd or even, we look at the ones digit.	true
A number made from groups of 2 is even.	true
17 can be made from groups of 2.	false

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Odd and Even Multiple Mastermind Cards

Multiple Mastermind ★

Look at the 10 times table. What do you notice about all the numbers in the 10 times table?

Can you think of any big numbers that are in the 10 times table without having to count?

Multiple Mastermind ★★

What do I have to multiply to produce an odd number as my answer?

Can you make a rule?

Multiple Mastermind ★★★

Leah says if she multiplies an odd number by an odd number, the answer will always be odd.

Multiple Mastermind ★

Explore the the 5 times table. What do you notice about the odd and even numbers? Why does this happen?

Multiple Mastermind ★★

Do any of the times tables have only even numbers as answers?

Do any of the times tables have only odd numbers as answers?

How would you explain this?

Multiple Mastermind ★★★

Adam says that if he multiplies an even number by an even number, the answer will always be even.

Is he correct?

Multiple Mastermind ★

We looked at the 2 times table. Can you find another times table that has only even numbers?

Multiple Mastermind ★★

Look at the answers to the 2 and 10 times tables. What do you notice?

Use equipment to explore this and try to explain why it happens.

Multiple Mastermind ★★★

Explore multiples of 2, 3, 5 and 10.

Thinking about odd and even numbers, what do you notice?

Can you explain why this happens?

Multiple Mastermind ★

Can you find a repeating pattern in the 2 times table? Can you continue the pattern?

Multiple Mastermind ★★

Complete the 5 and 10 times tables.

$1 \times 5 = 5$ $\quad$ $1 \times 10 = 10$

$2 \times 5 = 10$ $\quad$ $2 \times 10 = 20$

What do you notice?

Multiple Mastermind ★★★

Compare the 5 times and 10 times tables. What do you notice?

How could knowing your 5 times table help you with your 10 times table?

How could knowing your 10 times table help you with your 5 times table?

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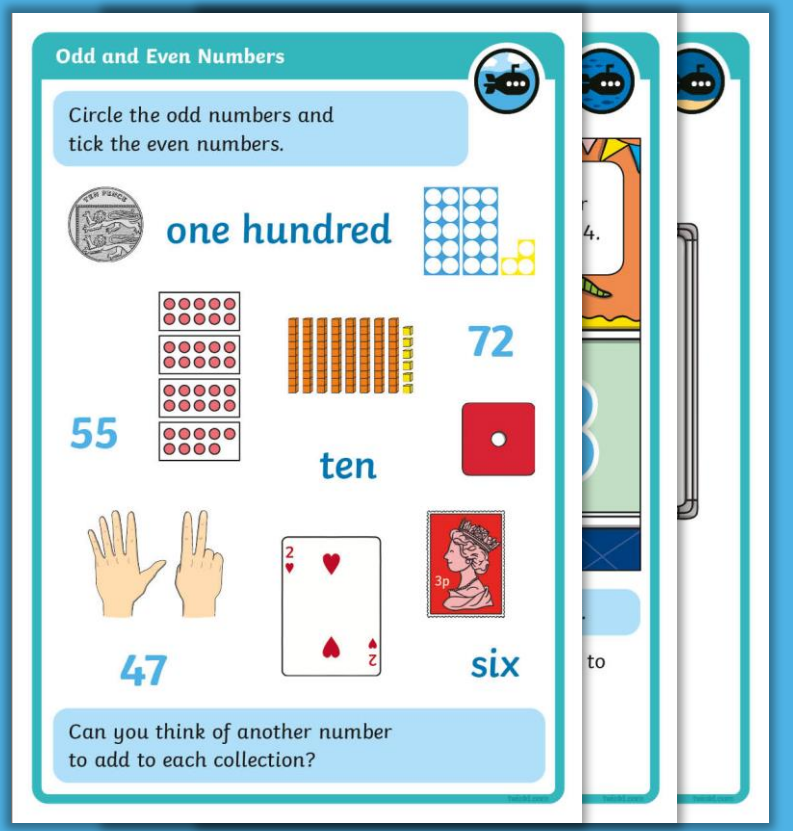
Diving into Mastery

Dive in by completing your own activity!



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Aim

- To recognise odd and even numbers.

Success Criteria

- I can explain why a number is odd or even.
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