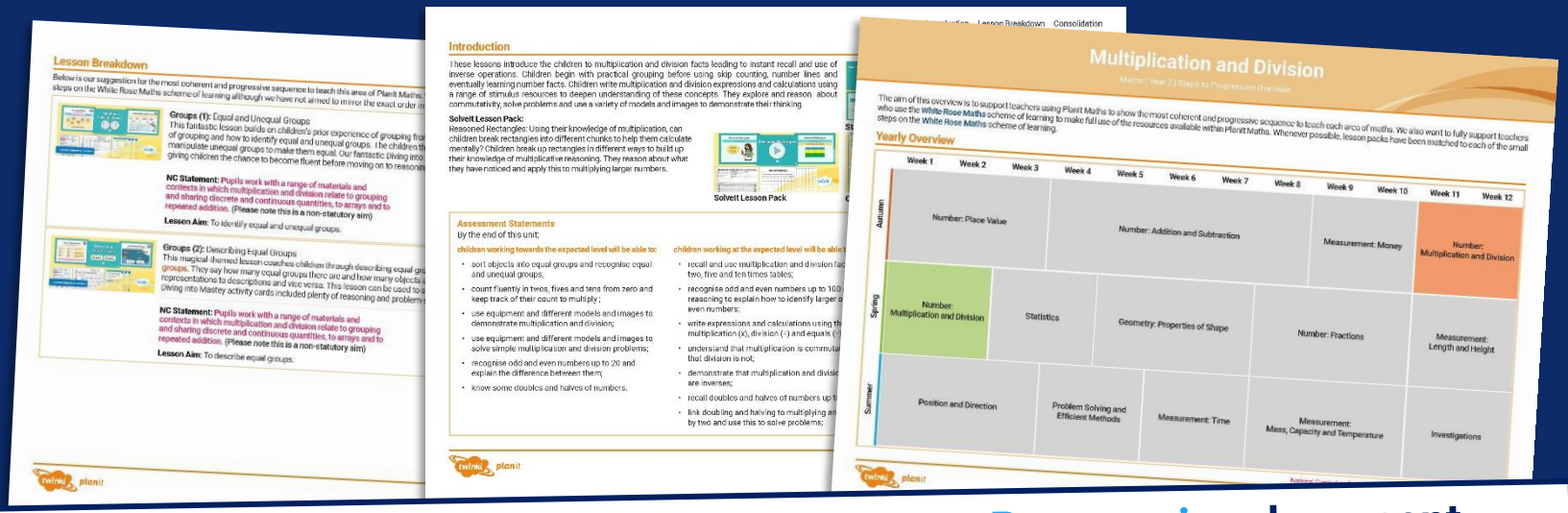
Maths

Multiplication and Division

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



See our Multiplication and Division Steps to Progression document.

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Multiplying by 10

twinkl

Aim

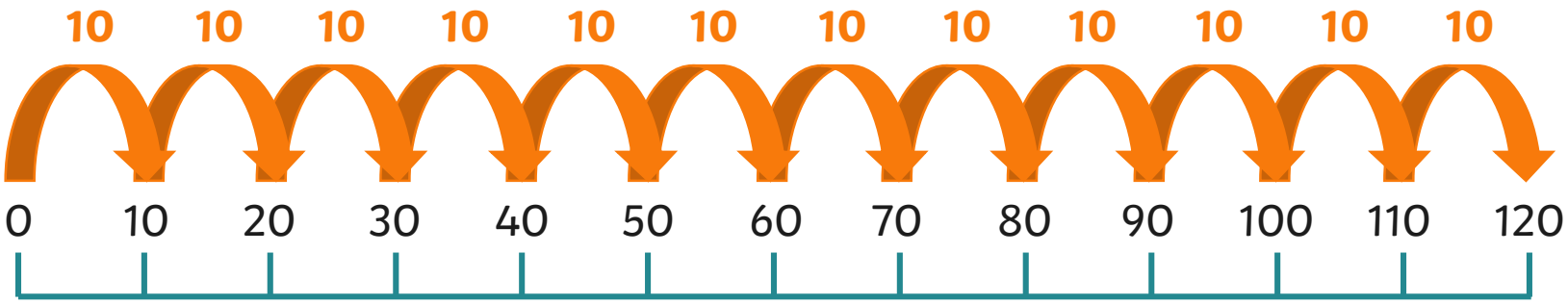
- To recall and use multiplication facts for the 10 times table.

Success Criteria

- I can count in 10s.
- I can spot patterns within multiples of 10.
- I can recall multiplication facts up to 12 × 10.

Remember It

Lets practise counting in 10s, forwards and backwards.



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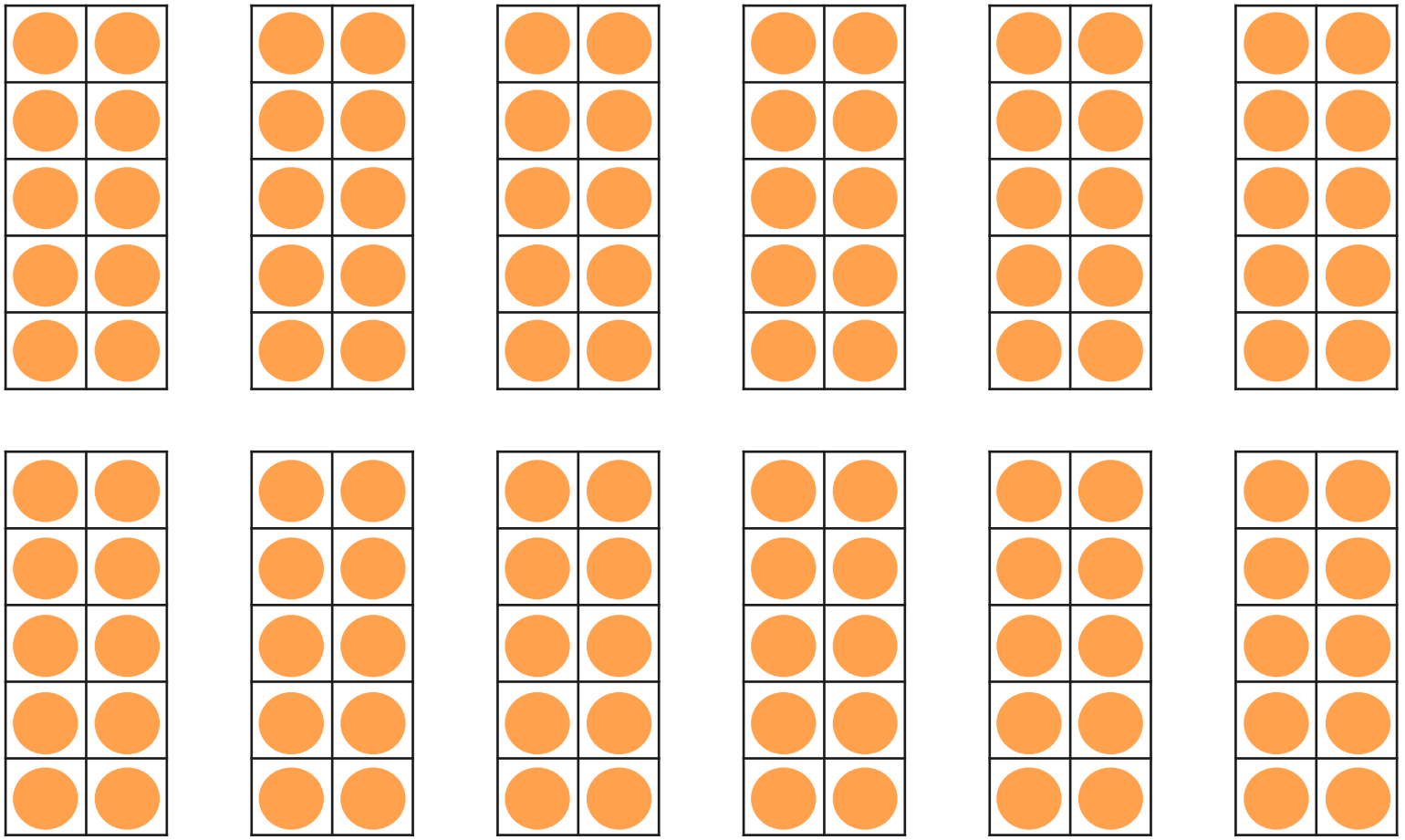

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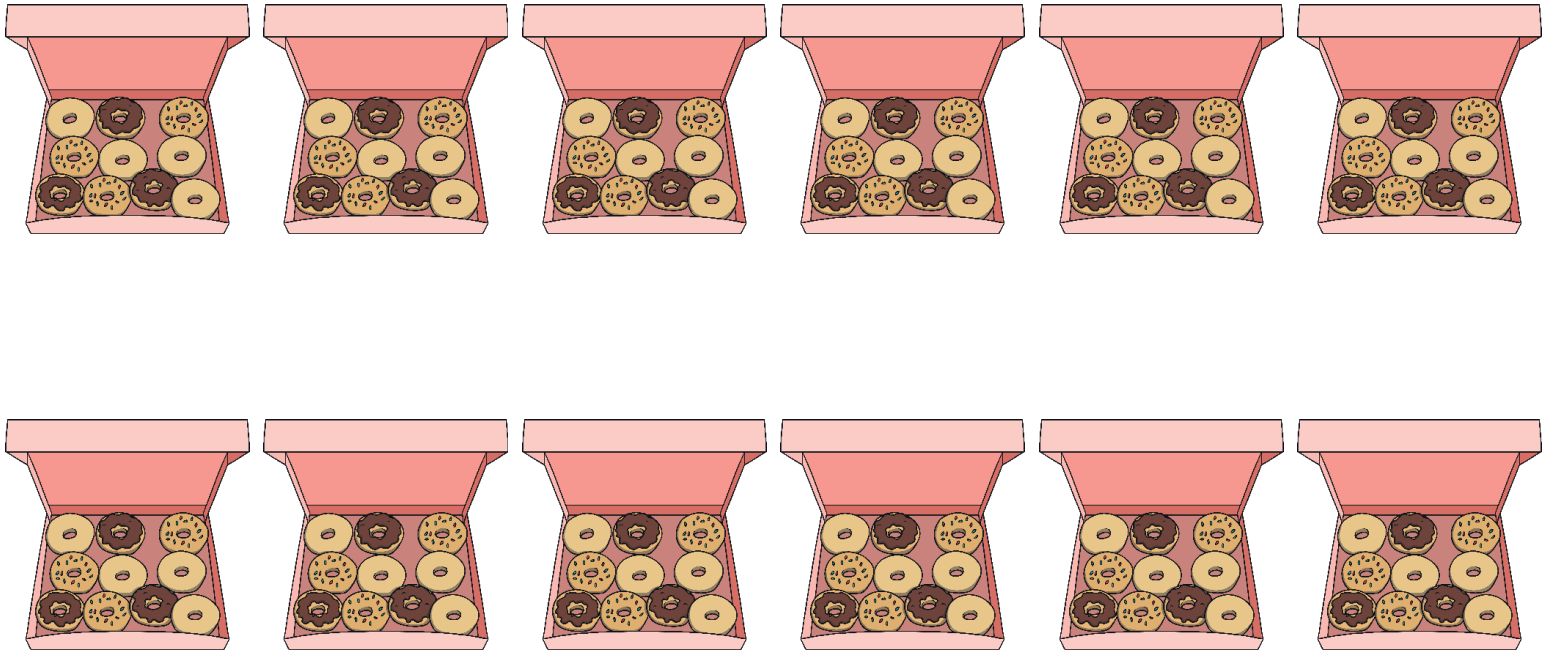


Remember It

Lets practise counting in 10s, forwards and backwards.

Pencil Packets

Pencils are sold in packets of 10.

The customer has bought 0 packets of pencils.
How many pencils have they bought?

There are 0 packets of pencils.

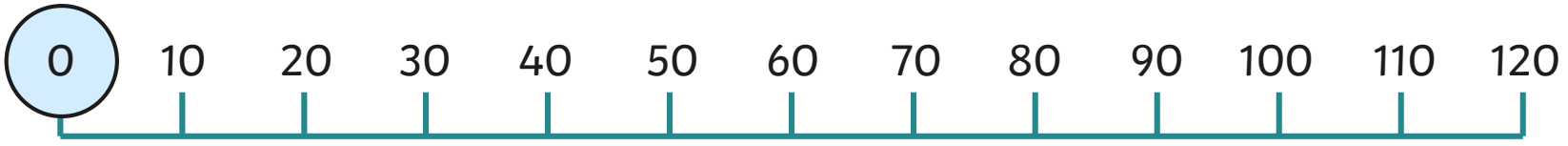
0 is a factor.

10 is a factor.

The product of 0 and 10 is 0.

$0 \times 10 = 0$

There are 0 pencils.



Pencil Packets

The customer has bought 1 packet of pencils.
How many pencils have they bought?

There is 1 packet of pencils.

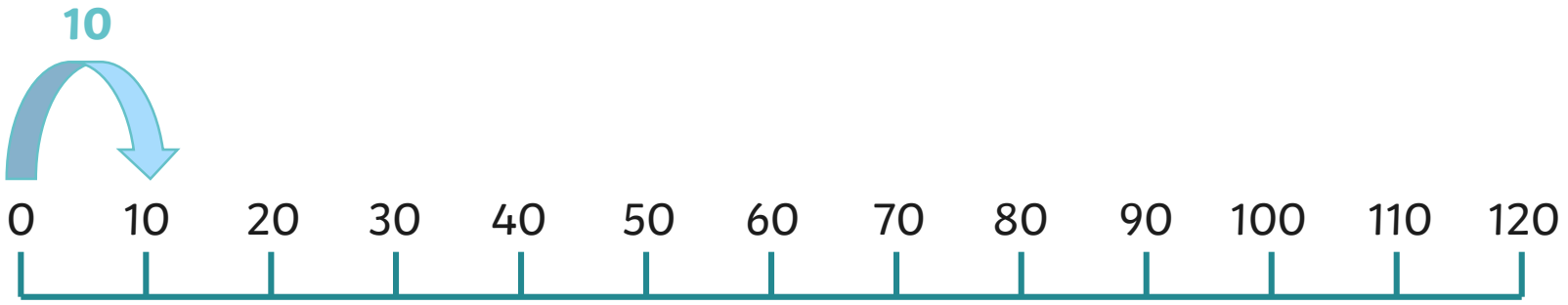
1 is a factor.

10 is a factor.

The product of 1 and 10 is 10.

$1 \times 10 = 10$

There are 10 pencils.



Pencil Packets

The customer has bought 2 packets of pencils.
How many pencils have they bought?

There are 2 packets of pencils.

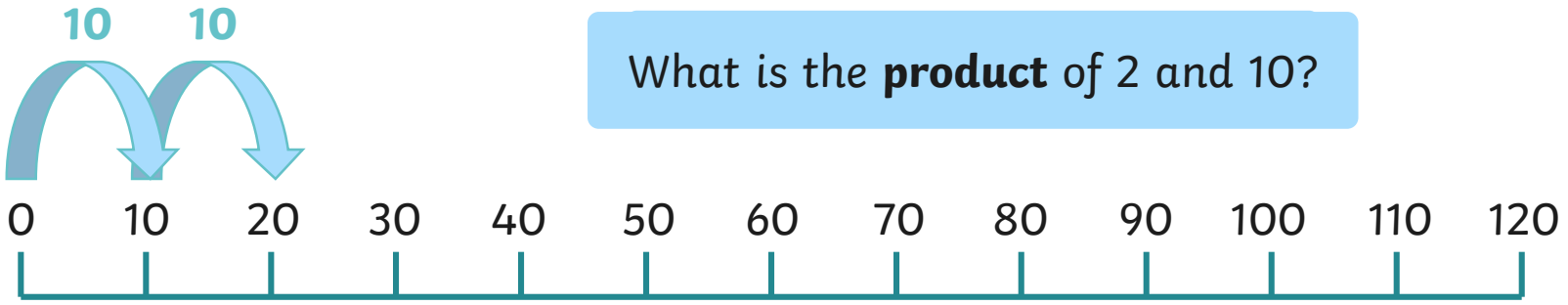
2 is a factor.

10 is a factor.

The product of 2 and 10 is 20.

$2 \times 10 = 20$

There are 20 pencils.



What is the **product** of 2 and 10?

Pencil Packets

The customer has bought 3 packets of pencils.

What are the 2 **factors** and the **product**?

There are 3 packets of pencils.

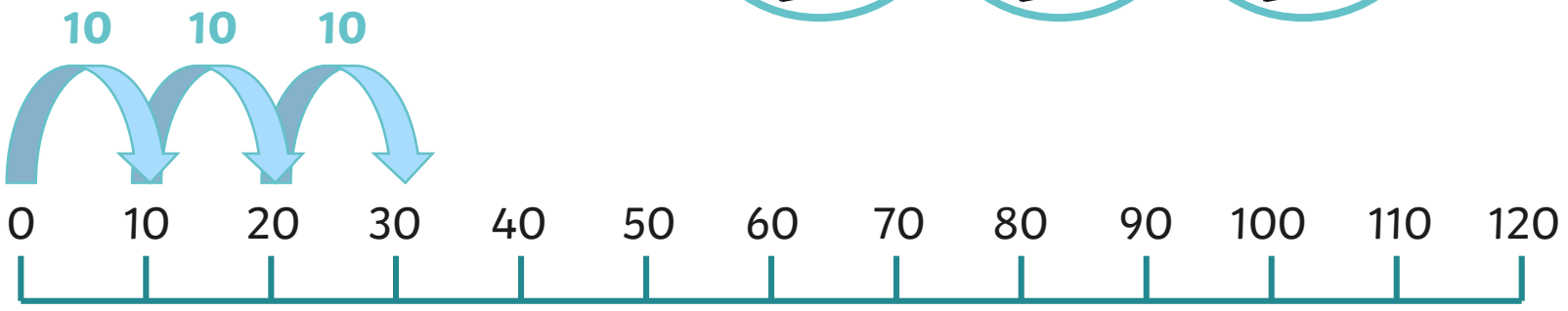
3 is a factor.

10 is a factor.

The product of 3 and 10 is 30.

3 × 10 = 30

There are 30 pencils.



Pencil Packets

The customer has bought 4 packets of pencils.

Write the **calculation** to show this.

There are 4 packets of pencils.

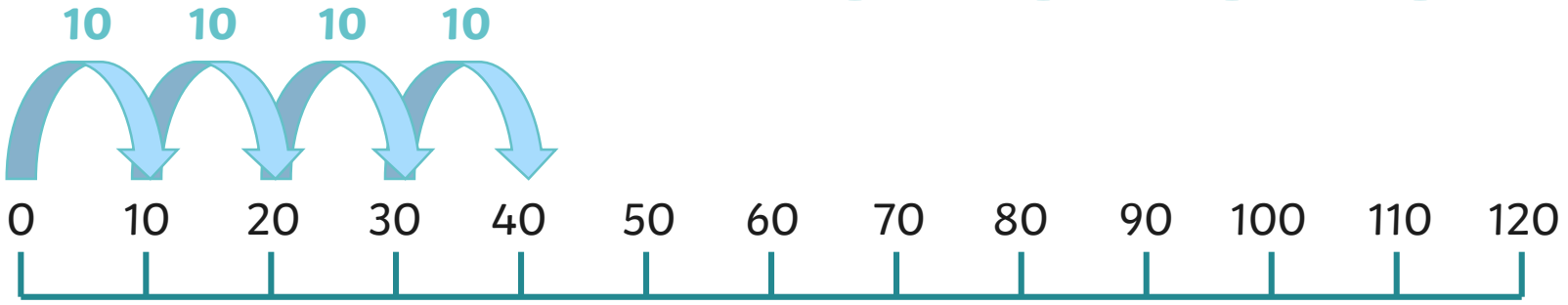
4 is a factor.

10 is a factor.

The product of 4 and 10 is 40.

$4 \times 10 = 40$

There are 40 pencils.



Pencil Packets

The customer has bought 5 packets of pencils.

There are 5 packets of pencils.

5 is a factor.

10 is a factor.

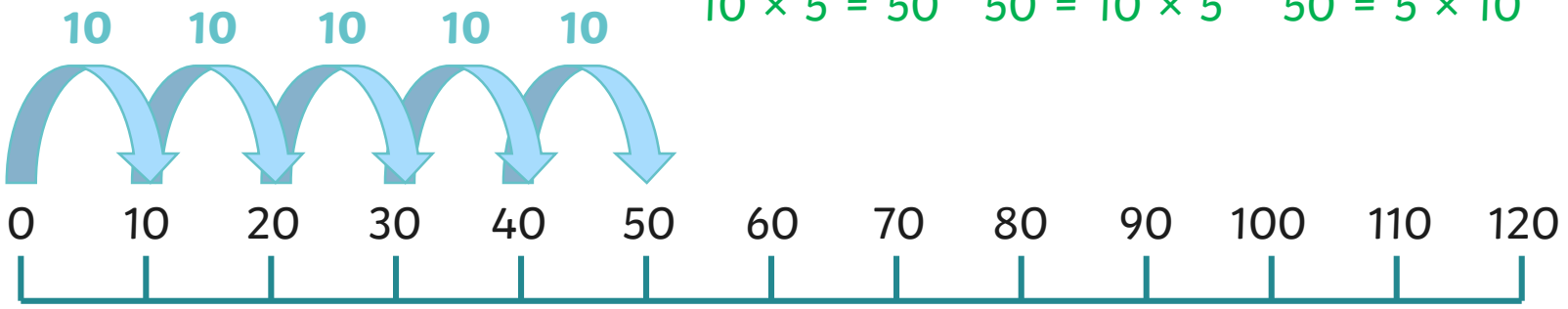
The product of 5 and 10 is 50.

$5 \times 10 = 50$

There are 50 pencils.

How else could you write the **calculation**?

$10 \times 5 = 50$ $50 = 10 \times 5$ $50 = 5 \times 10$



Pencil Packets

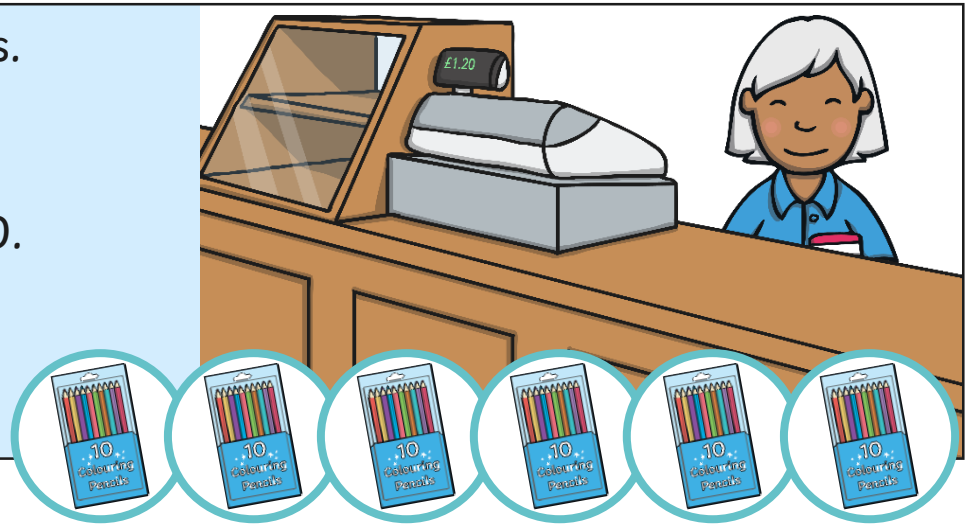
The customer has bought 6 packets of pencils.

There are 6 packets of pencils.
6 is a factor.
10 is a factor.
The product of 6 and 10 is 60.

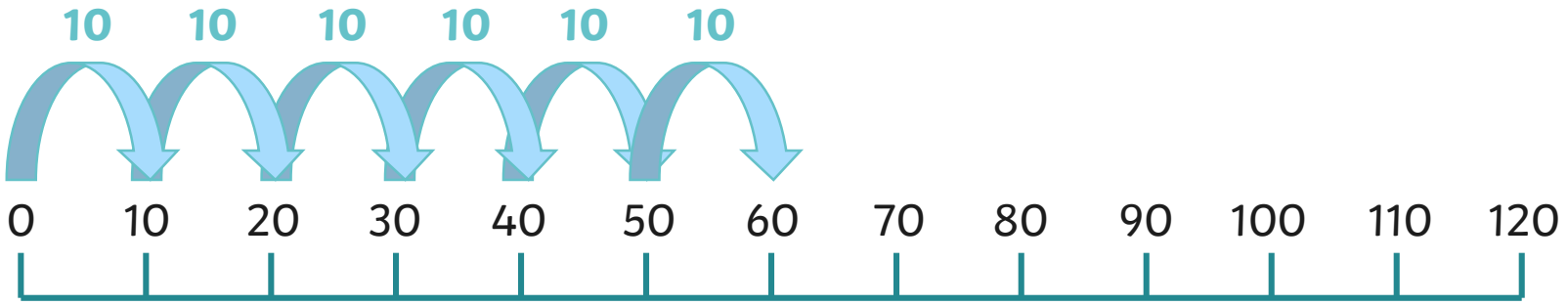
$6 \times 10 = 60$ $\quad 60 = 6 \times 10$

$10 \times 6 = 60$ $\quad 60 = 10 \times 6$

There are 60 pencils.



Write at least 2 **calculations** to show this.



Pencil Packets

The customer has bought 7 packets of pencils.

Complete the sentences.

There are 7 packets of pencils.

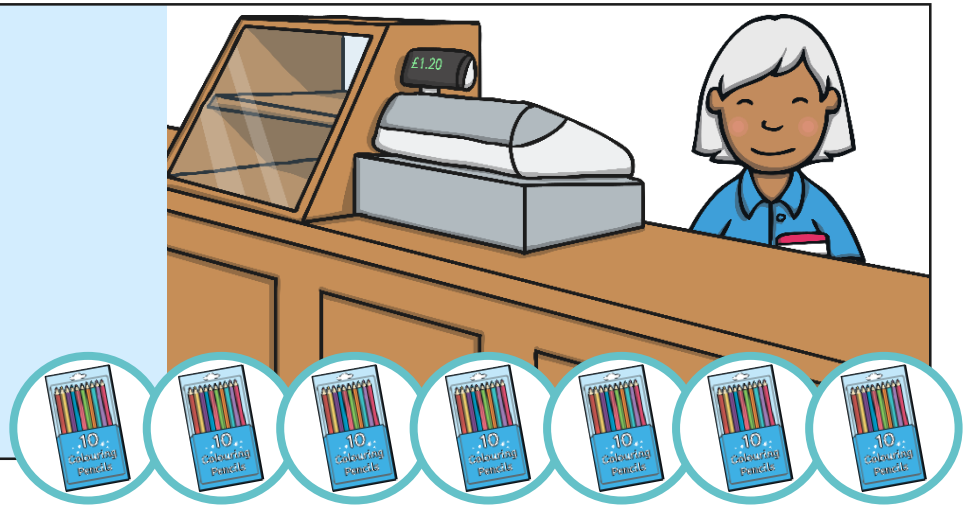
_ is a factor.

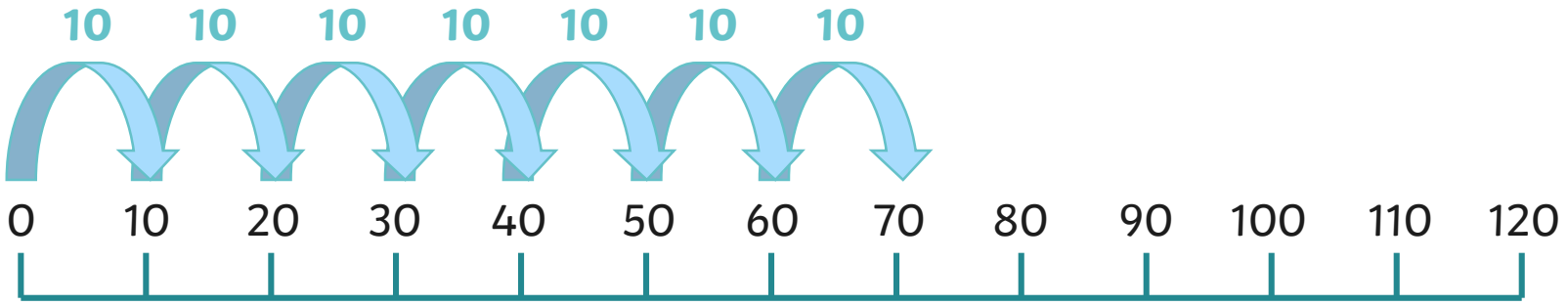
__ is a factor.

The product of _ and __ is __.

7 × 10 = 70

There are 70 pencils.





Pencil Packets

The customer has bought 8 packets of pencils.

Complete the sentences and calculations.

There are 8 packets of pencils.

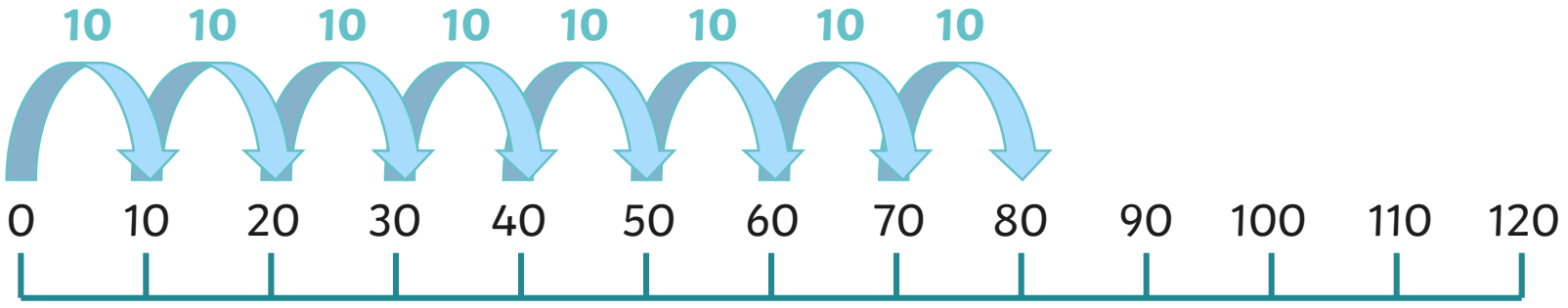
__ is a factor.

__ is a factor.

The product of __ and __ is __.

__ × __ = __

There are __ pencils.



Pencil Packets

The customer has bought 9 packets of pencils.

There are 9 packets of pencils.

9 is a factor.

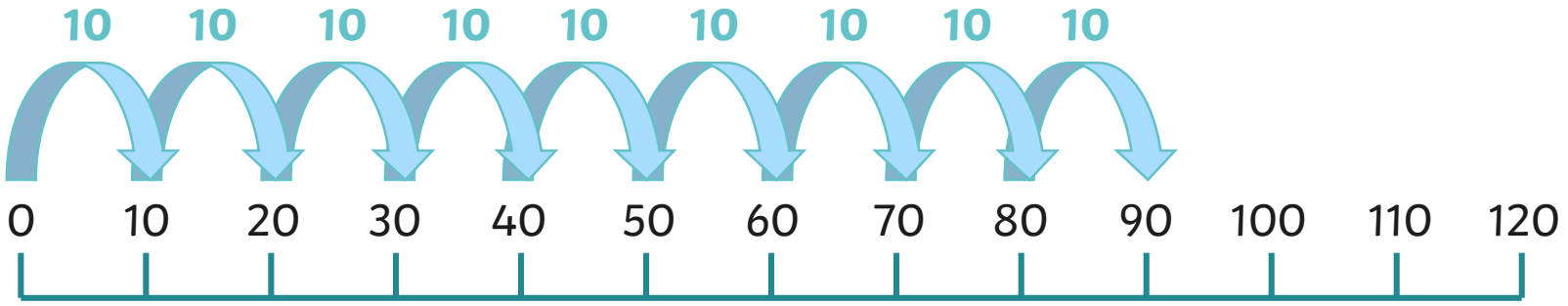
10 is a factor.

The product of 9 and 10 is 90.

$9 \times 10 = 90$

There are 90 pencils.

Write down the 2 **factors**, the **product** and the **calculation**.



Pencil Packets

The customer has bought 10 packets of pencils.

There are 10 packets of pencils.

10 is a factor.

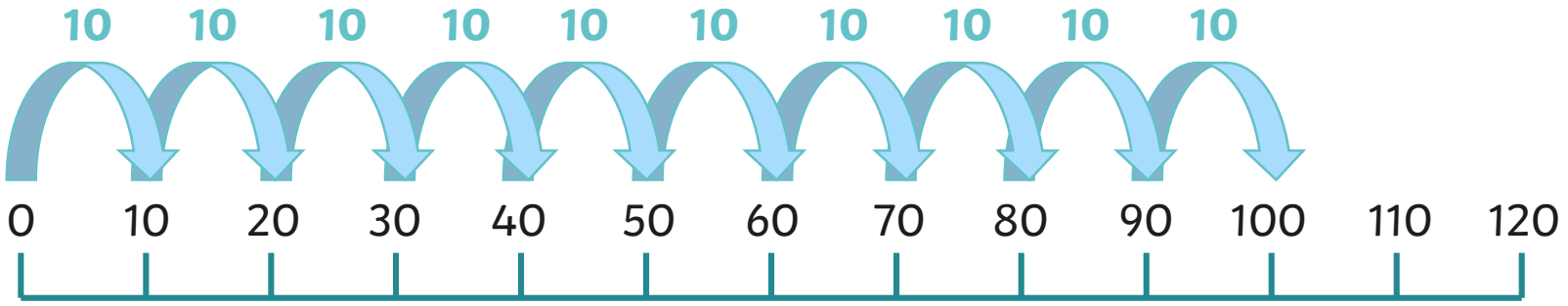
10 is a factor.

The product of 10 and 10 is 100.

$10 \times 10 = 100$

There are 100 pencils.

Write down the 2 **factors**, the **product** and the **calculation**.



Pencil Packets

The customer has bought 11 packets of pencils.

There are 11 packets of pencils.

11 is a factor.

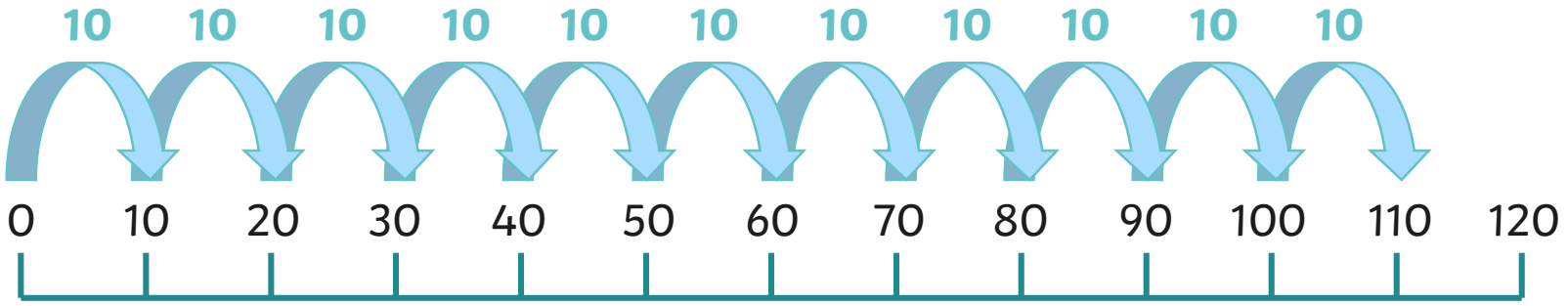
10 is a factor.

The product of 11 and 10 is 110.

$11 \times 10 = 110$

There are 110 pencils.

Write down the 2 **factors**, the **product** and the **calculation**.



Pencil Packets

The customer has bought 12 packets of pencils.

There are 12 packets of pencils.

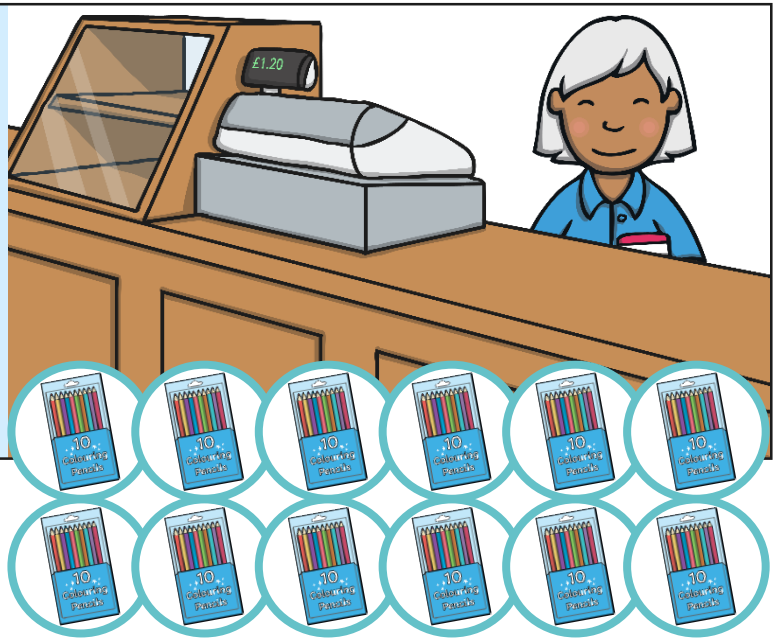
12 is a factor.

10 is a factor.

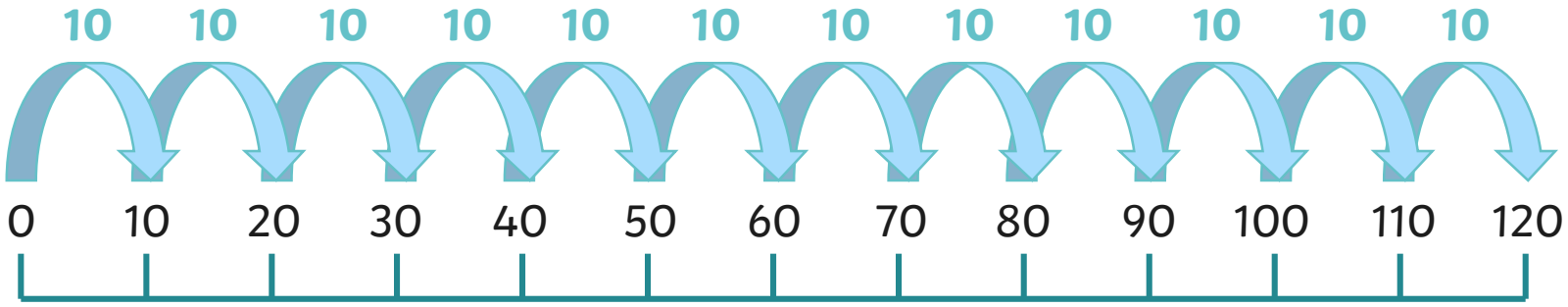
The product of 12 and 10 is 120.

$12 \times 10 = 120$

There are 120 pencils.



Write down the 2 **factors**, the **product** and the **calculation**.



Pencil Packets

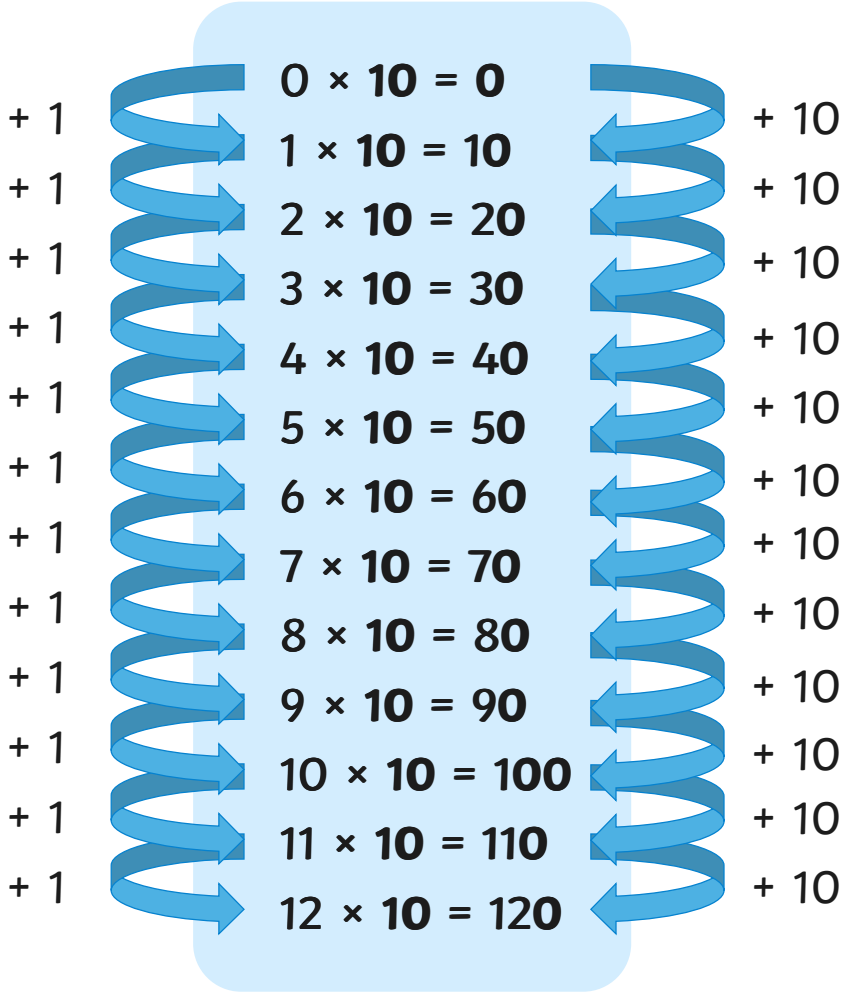
	Number of Packets of Pencils	Number of Pencils
0 × 10 = 0	0	0
1 × 10 = 10	1	10
2 × 10 = 20	2	20
3 × 10 = 30	3	30
4 × 10 = 40	4	40
5 × 10 = 50	5	50
6 × 10 = 60	6	60
7 × 10 = 70	7	70
8 × 2 = 80	8	80
9 × 10 = 90	9	90
10 × 10 = 100	10	100
11 × 10 = 110	11	110
12 × 10 = 120	12	120

If there are 40 pencils, how many packets are there?

If there are 6 packets of pencils, how many pencils are there?

Patterns

What patterns can you see? Tell your partner.
Have they found any different ones?



The first factors each increase by 1.

The second factor is 10 in every calculation.

The products all have 0 ones.

Working down the list, the products increase by 10 each time.

Let's use the patterns to find the missing numbers.

Working down the list, the products increase by 10 each time.

This means that working up the list, the products decrease by 10 each time.

$0 \times 10 = 0$
$1 \times 10 = 10$
$2 \times 10 = 20$
$3 \times 10 = 30$
$4 \times 10 = 40$
$5 \times 10 = 50$
$6 \times 10 = 60$
$7 \times 10 = 70$
$8 \times 10 = 80$
$9 \times 10 = 90$
$10 \times 10 = 100$
$11 \times 10 = 110$
$12 \times 10 = 120$

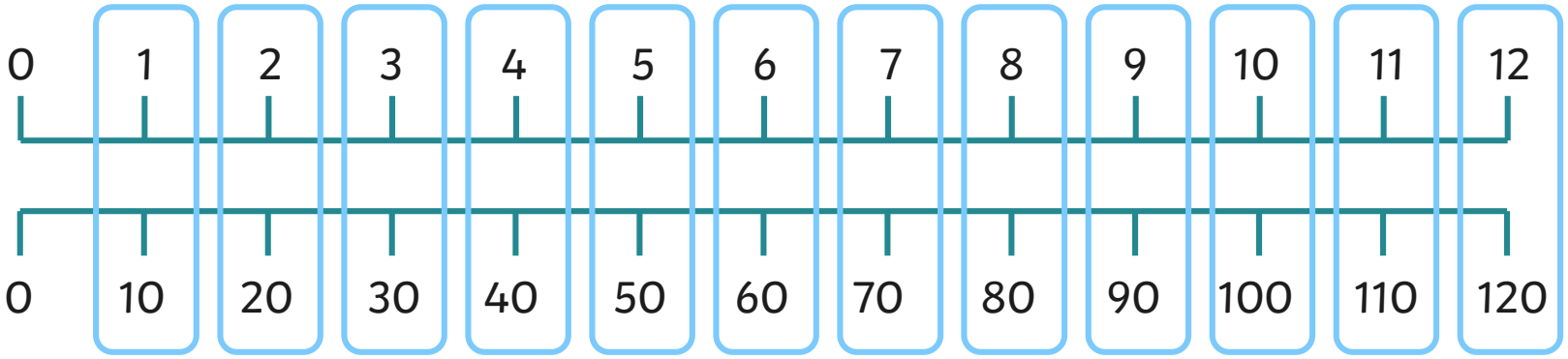
$4 \times 10 = 5 \times 10 - 10$

- 10

$10 \times 10 = 9 \times 10 + 10$

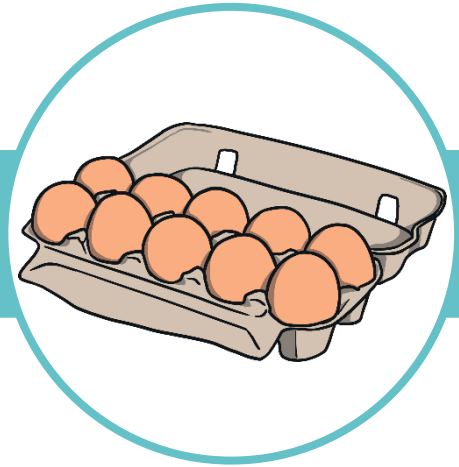
+ 10

Let's practise the ten times table.



Twelve tens are one hundred and twenty.

Let's use the tens times table to solve this problem.



There are 10 eggs in each egg box.

Altogether, there are 50 eggs.

How many boxes are there?

Represent this with a calculation.

$\boxed{5} \times 10 = 50$

Use the greater than, less than and equals symbols to complete these problems.

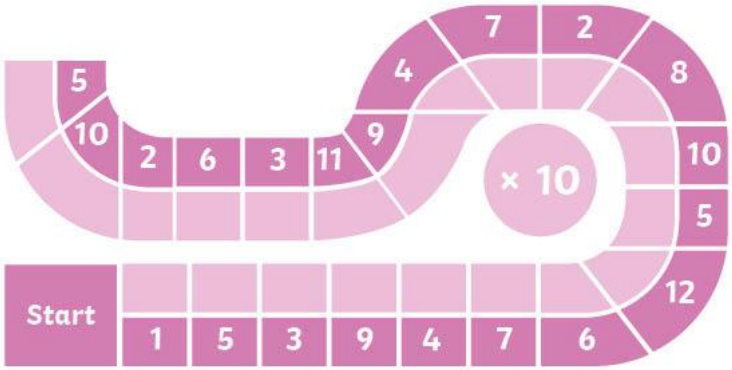
< > =

7 × 10	>	6 × 10
7 × 10	=	8 × 10 - 10
7 × 10	<	8 × 10 + 10
7 × 10	=	6 × 10 + 10

10 Times Table Race

10 Times Table Race

Multiply the numbers on the track by 10. Write them down as you go around. Use a timer to see how long it takes you to finish the race!



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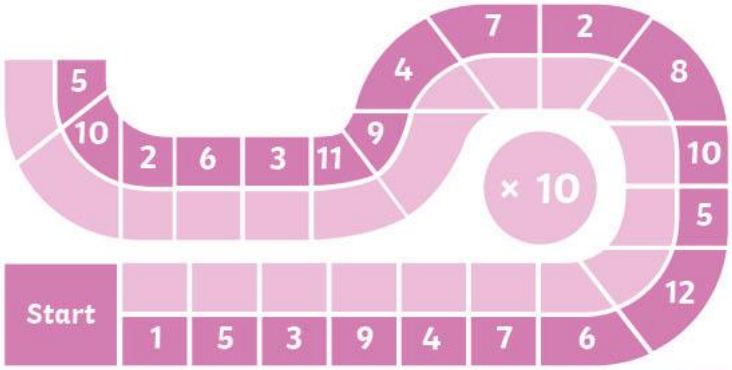
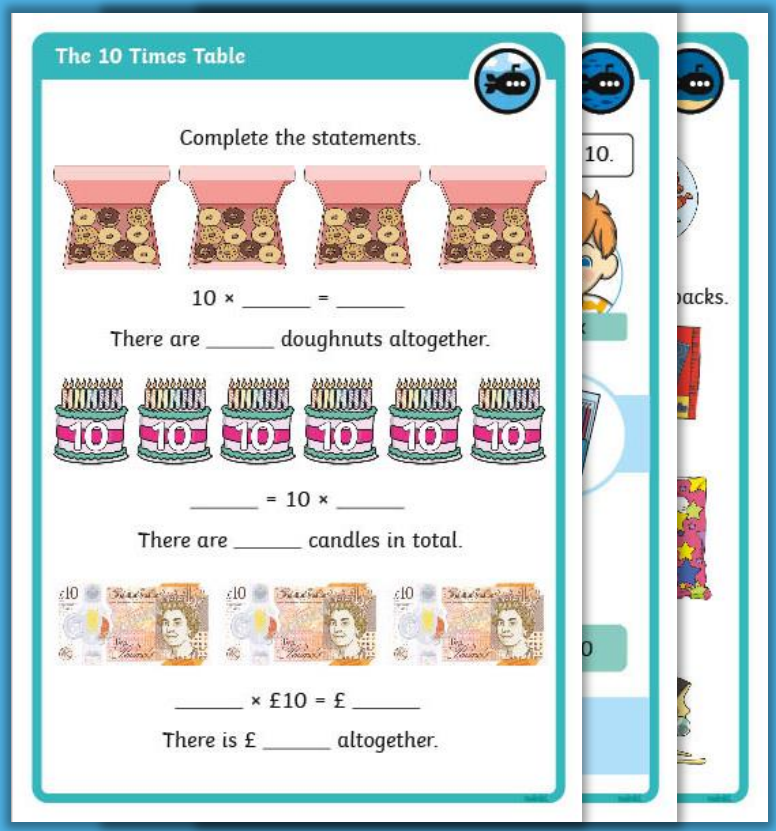


Diving into Mastery

Dive in by completing your own activity!



Aim

- To recall and use multiplication facts for the 5 times table.

Success Criteria

- I can count in 5s.
- I can spot patterns within multiples of 5.
- I can recall multiplication facts up to 12 × 5.