

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily triangles and polygons, creating a dynamic, layered effect. The central area is white, providing a clean space for the text.

Teaching Multiplication through the school

EYFS and Year 1

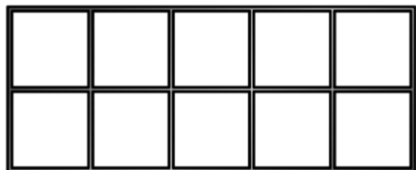
Early Multiplication (EYFS and Year 1)

- Doubling
- Counting in steps of 2, 5 and 10.
(forwards and backwards!)
- Equal groups

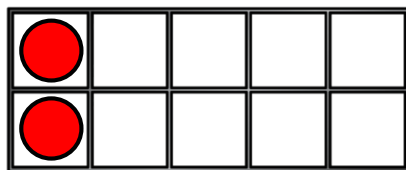


- No symbol (X)

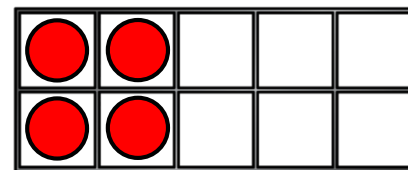
How many counters?



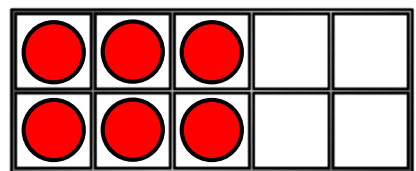
0



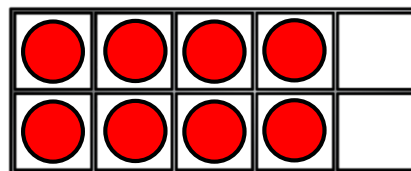
2



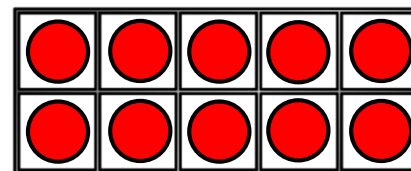
4



6



8



10

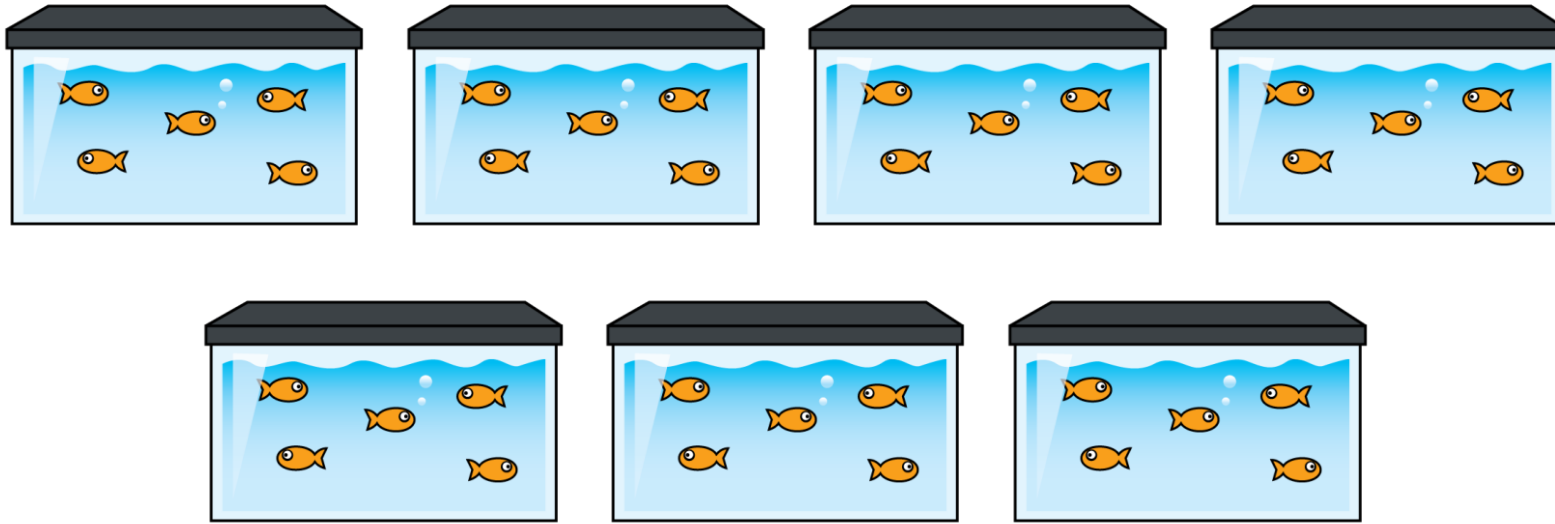
How many socks?

Have a think



There are 12 equal groups of 2
There are 24 socks altogether.

How many fish?



There are 5 fish in each tank.

There are 7 tanks.

There are 35 fish altogether.



Line up the bikes or scooters
outside.

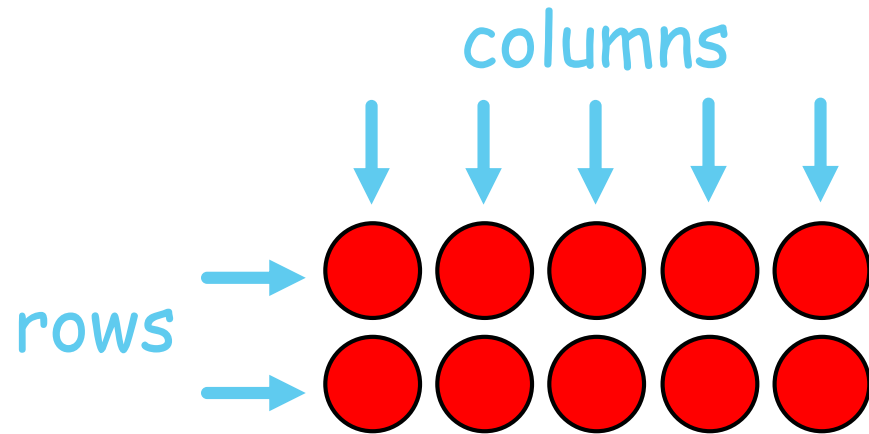


Write a number sentence to match
How many wheels together?

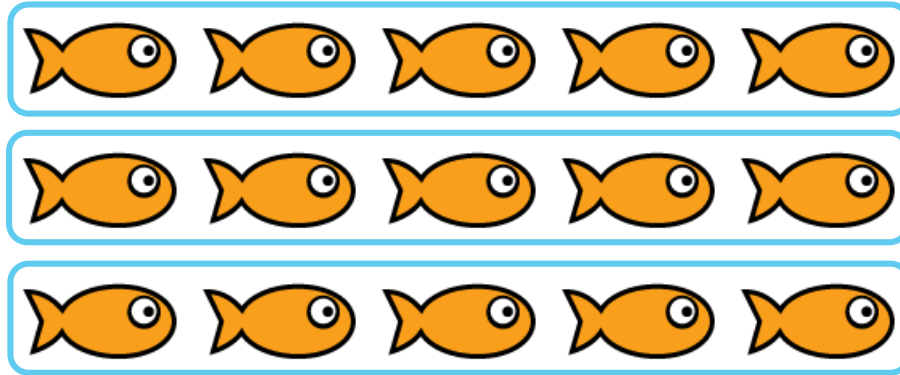
$$2 + 2 + 2 + 2 + 2 = 10$$

Introduced Summer Year 1

An array



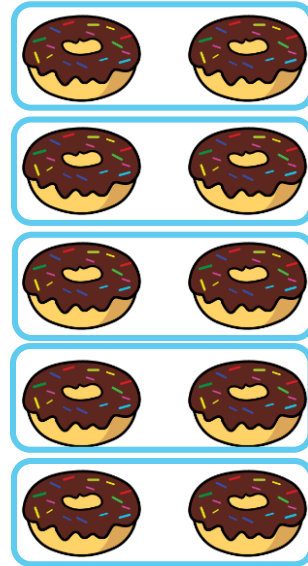
Circle the rows and complete the stem sentences.



There are 3 rows of 5

There are 15 altogether.

Circle the rows and complete the stem sentences.

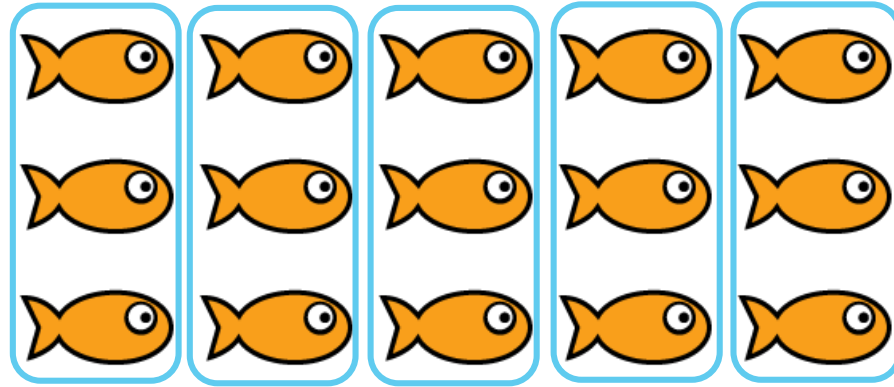


Have a think

There are 5 rows of 2

There are 10 altogether.

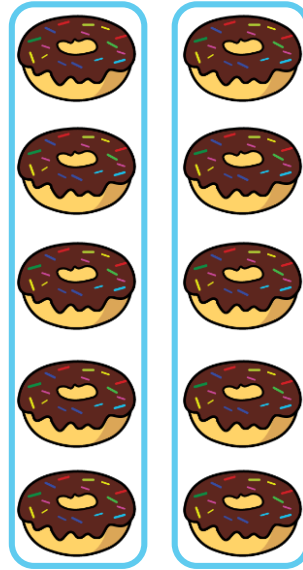
Circle the columns and complete the stem sentences.



There are 5 columns of 3

There are 15 altogether.

Circle the columns and complete the stem sentences.



Have a think

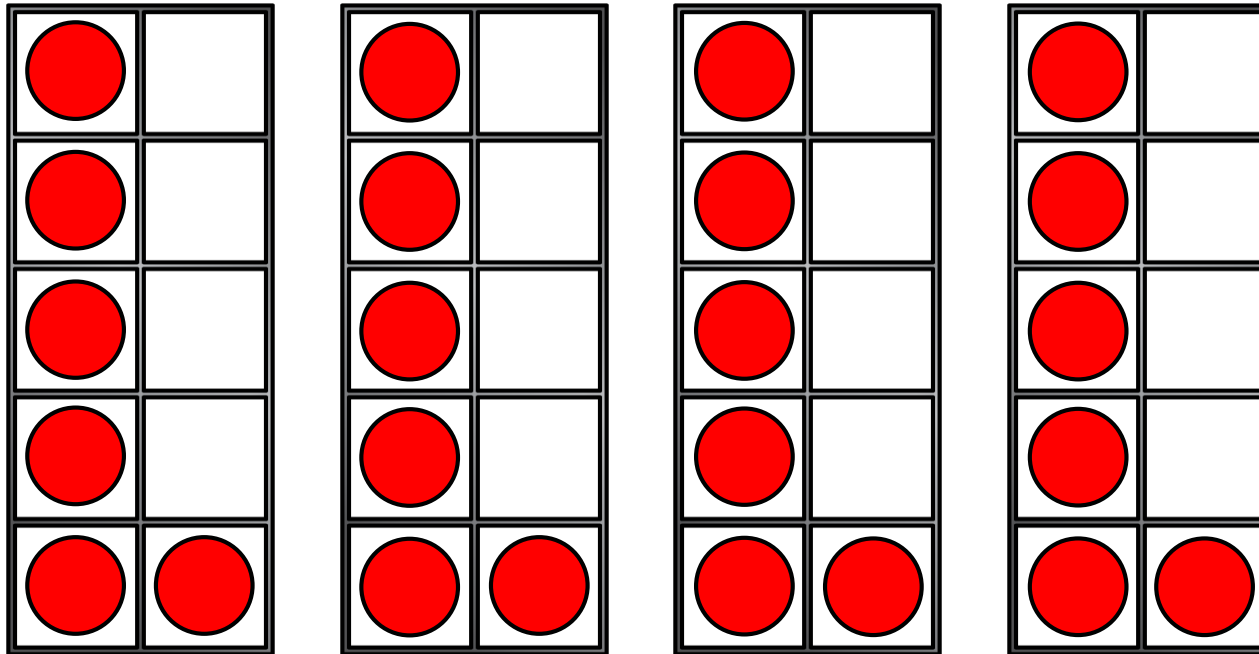
There are 2 columns of 5

There are 10 altogether.

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the frame, creating a dynamic, layered effect. The rest of the background is a clean, solid white.

Year 2

Complete the sentences.



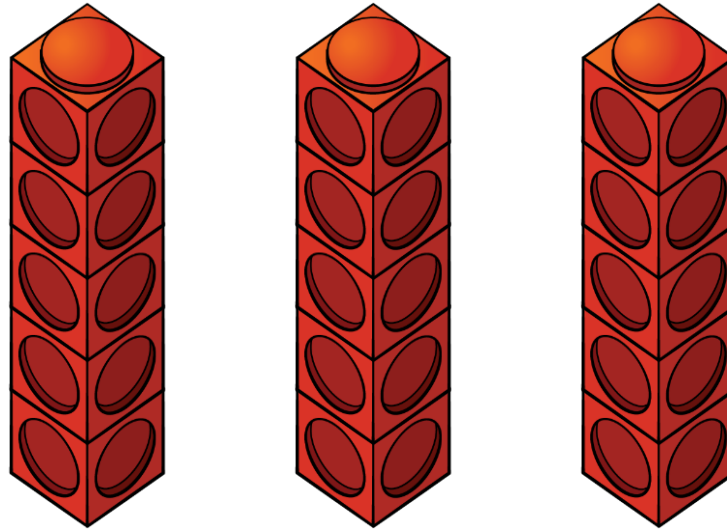
There are 4 equal groups with 6 in each group.

$$\boxed{6} + \boxed{6} + \boxed{6} + \boxed{6} = 24$$

Complete the sentences.

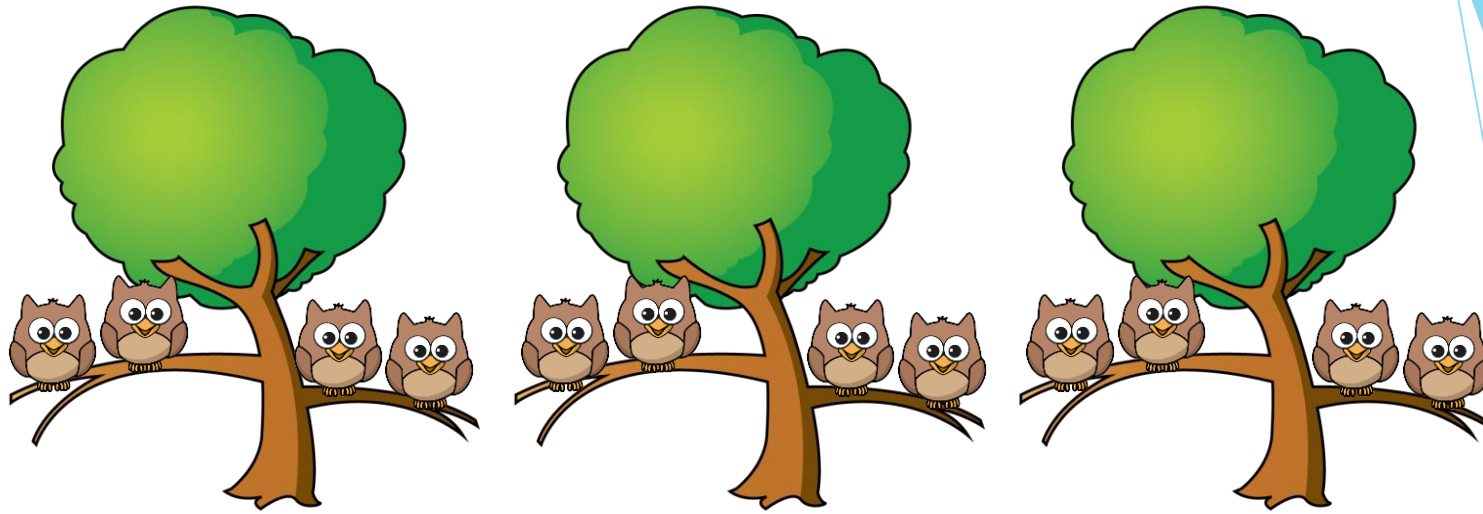


Have a think



There are 3 equal groups with 5 in each group.

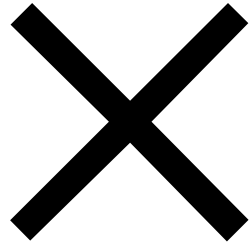
$$\boxed{5} + \boxed{5} + \boxed{5} = 15$$



There are 3 equal groups with 4 in each group.

$$\boxed{4} + \boxed{4} + \boxed{4} = 12$$

$$\boxed{3} \times \boxed{4} = 12$$



"lots of"

"groups of"

"times"



$$3 \times 4 = 12$$

"3 lots of 4 is equal to 12"

"3 groups of 4 is equal to 12"

"3 times 4 is equal to 12"

Write the multiplication to match the repeated addition.

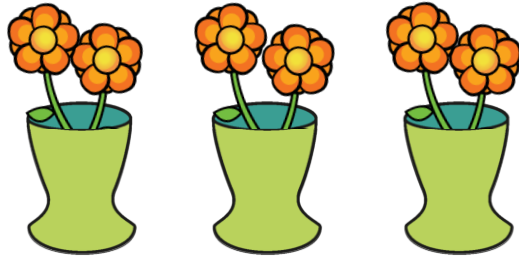
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{15}$$

$$\boxed{3} \times \boxed{5} = \boxed{15}$$

How many groups are there?

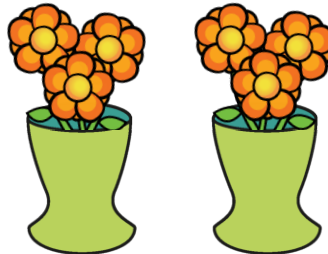
How many are in each group?

Complete the multiplication to match the picture.



$$\boxed{3} \times \boxed{2} = \boxed{6}$$

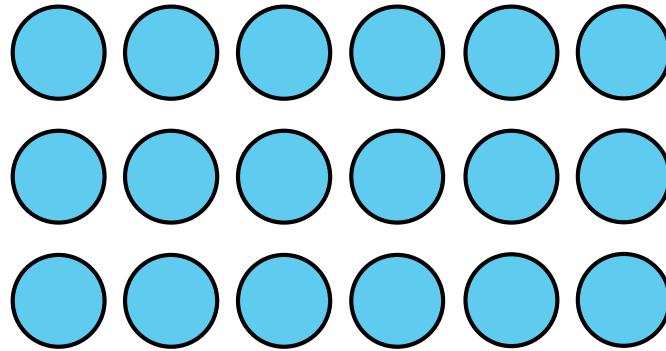
Draw a picture to show $2 \times 3 = 6$



What's the same? Have a think What's different?



Complete the number sentences to match the array.



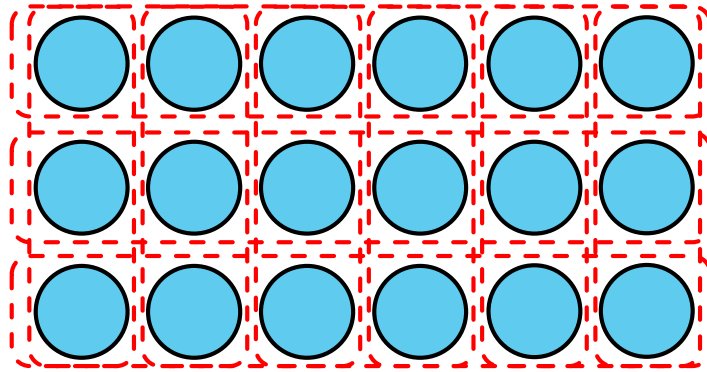
$$\boxed{6} + \boxed{6} + \boxed{6} = \boxed{18}$$

$$\boxed{3} \times \boxed{6} = \boxed{18}$$

Have a think



How can you write the number sentences another way?



$$6 + 6 + 6 = 18$$

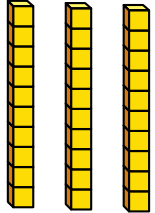

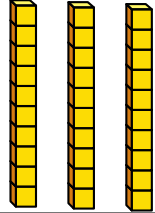

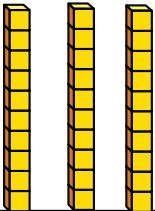

$$3 \times 6 = 18$$

$$3 + 3 + 3 + 3 + 3 + 3 = 18$$

$$6 \times 3 = 18$$

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the frame, creating a dynamic, layered effect. The rest of the background is a plain, light blue color.

Year 3

T	O
	
	
	

Have a think



$$31 \times 3 = 93$$


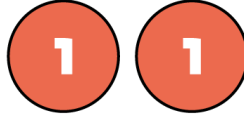

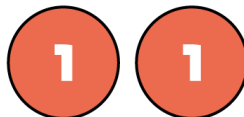




 3 tens multiplied by 3 is equal to 90

 1 one multiplied by 3 is equal to 3

 31 multiplied by 3 is equal to 93

Have a think


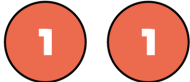

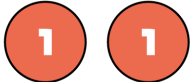

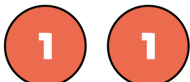

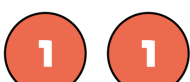

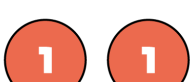


T	O
	
	
	
	

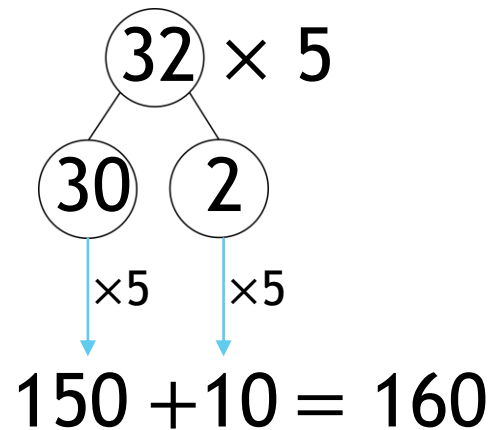
$$\underline{22} \times \underline{4} = \underline{88}$$

What calculation is shown?

What multiplication is shown by the counters?

Tens	Ones
	
	
	
	
	

Have a think



$$32 \times 5 = 160$$

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Year 4

$$21 \times 4 = 84$$

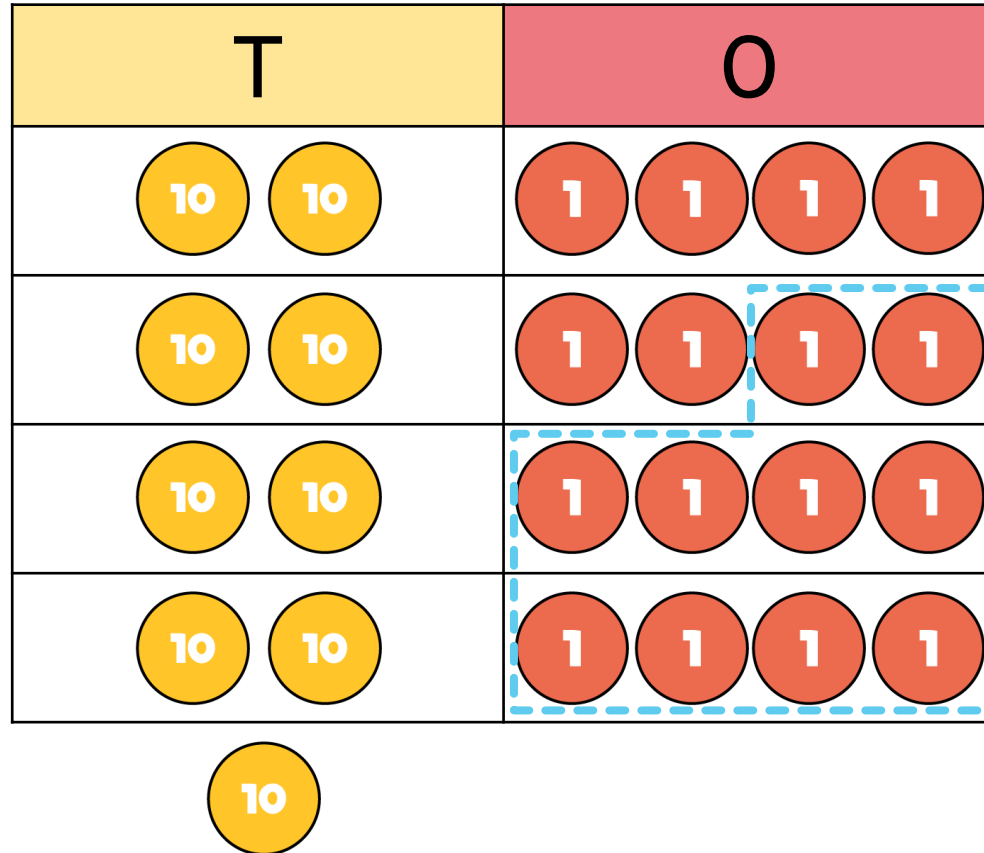
Tens	Ones
10 10	1
10 10	1
10 10	1
10 10	1

	T	O	
	2	1	
×		4	
		<u>4</u>	
	8	0	
	<u>8</u>	<u>4</u>	

$$(1 \times 4 = 4)$$

$$(20 \times 4 = 80)$$

$$4 \times 24 = 96$$



	T	O	
	2	4	
×		4	
	9	6	
	1		

	T	O		
	2	4		
×		4		
	1	6	(4 × 4)	
	8	0	(4 × 20)	
	9	6		

	T	O		
	2	4		
×		4		
	9	6		
	1			

Have a think



- What is the same about each method?
- What is different about each method?
- Which method do you prefer? Why?

$$3 \times 72 = 216$$

H	T	O
	10 10 10 10 10 10 10	1 1
	10 10 10 10 10 10 10	1 1
	10 10 10 10 10 10 10	1 1


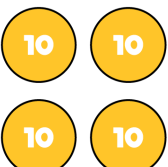


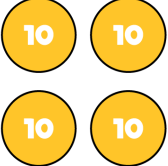


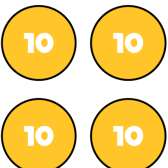


100 100

	H	T	O
		7	2
×			3
	2	1	6
	2		

Have a think



$$251 \times 3 = 753$$

H	T	O
		
		
		
		

	H	T	O
	2	5	1
×			3
	<u>7</u>	<u>5</u>	<u>3</u>
	1		

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily triangles and polygons that create a sense of depth and movement. The central area is a clean white space where the text is located.

Year 5

Th	H	T	O
		7	8

Th	H	T	O
	7	8	0

Th	H	T	O
7	8	0	0

TTh	Th	H	T	O
7	8	0	0	0

Have a think



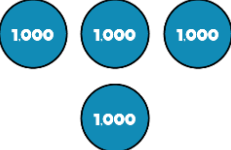



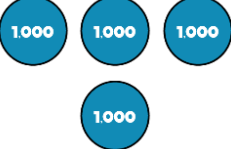


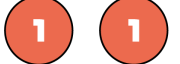
$$78 \times 10 = 780$$

$$78 \times 100 = 7,800$$

$$78 \times 1,000 = 78,000$$

What stays the same? What changes?

Complete the sentences to describe the multiplication.

Thousands	Hundreds	Tens	Ones
			
			

There are 4 ones. It is the same as 4,000.

There are 2 hundreds. It is the same as 200.

There are 3 tens. It is the same as 30.

There are 2 ones. It is the same as 2.

There are 8 thousands altogether.








How does multiplication link to addition?

4,232 × 2 = 8,464

Have a think



Calculate $3,223 \times 3$

Thousands	Hundreds	Tens	Ones
			
			
			

	3	2	2	3	
×				3	
	9	6	6	9	

Do you need to make an exchange?

Have a think



There are 2,114 seats in a theatre. The theatre is fully booked for 3 shows. How many people attend overall?

$$2,114 \times 3$$

Thousands	Hundreds	Tens	Ones
1000 1000	100	10	1 1 1 1
1000 1000	100	10	1 1 1 1
1000 1000	100	10	1 1 1 1

	2	1	1	4	
×				3	
	6	3	4	2	
			1		

Do you need to make an exchange?

6,342 people attend.



$$23 \times 31$$

\times	20	3
30	600	90
1	20	3

$$600 + 90 + 20 + 3 = 713$$

	H	T	O	
		2	3	
\times		3	1	
			3	

$$23 \times 31$$

\times	20	3
30	600	90
1	20	3

	H	T	O	
		2	3	
\times		3	1	
		2	3	

$$600 + 90 + 20 + 3 = 713$$

$$23 \times 31$$

\times	20	3
30	600	90
1	20	3

$$600 + 90 + 20 + 3 = 713$$

	H	T	O	
		2	3	
\times		3	1	
		2	3	
		9	0	

$$23 \times 31$$

\times	20	3
30	600	90
1	20	3

	H	T	O	
		2	3	
\times		3	1	
		2	3	
	6	9	0	

$$600 + 90 + 20 + 3 = 713$$

$$23 \times 31$$

\times	20	3
30	600	90
1	20	3

$$600 + 90 + 20 + 3 = 713$$

	H	T	O	
		2	3	
\times		3	1	
		2	3	
+	6	9	0	
	7	1	3	

$$23 \times 31$$

	H	T	O	
		2	3	
×		3	1	
<hr/>				
		2	3	
+	6	9	0	
<hr/>				
	7	1	3	
	1			

$$(23 \times 1)$$

$$(23 \times 30)$$

$$23 \times 31 = (23 \times 1) + (23 \times 30)$$

$$2,313 \times 32 = 74,016$$

	Th	H	T	O	
	2	3	1	3	
×			3	2	
	4	6	2	6	
+	6	9	3	9	0
	7	4	0	1	6
	1	1	1		

$$(\underline{2,313} \times \underline{2})$$

$$(\underline{2,313} \times \underline{30})$$

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Year 6

$$3.12 \times 10 / 100 / 1000$$



Th	H	T	0	●	Tth	Hth
				●		
				●		

