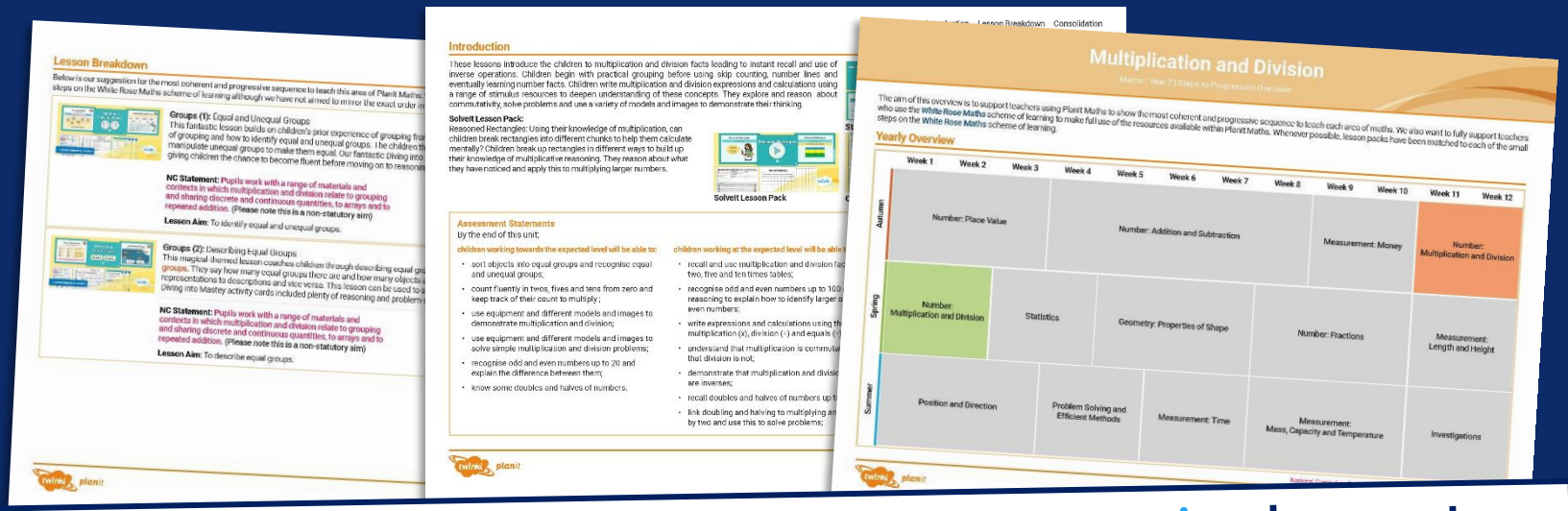
Maths

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.

Multiplication Expressions

3 × 2

Aim

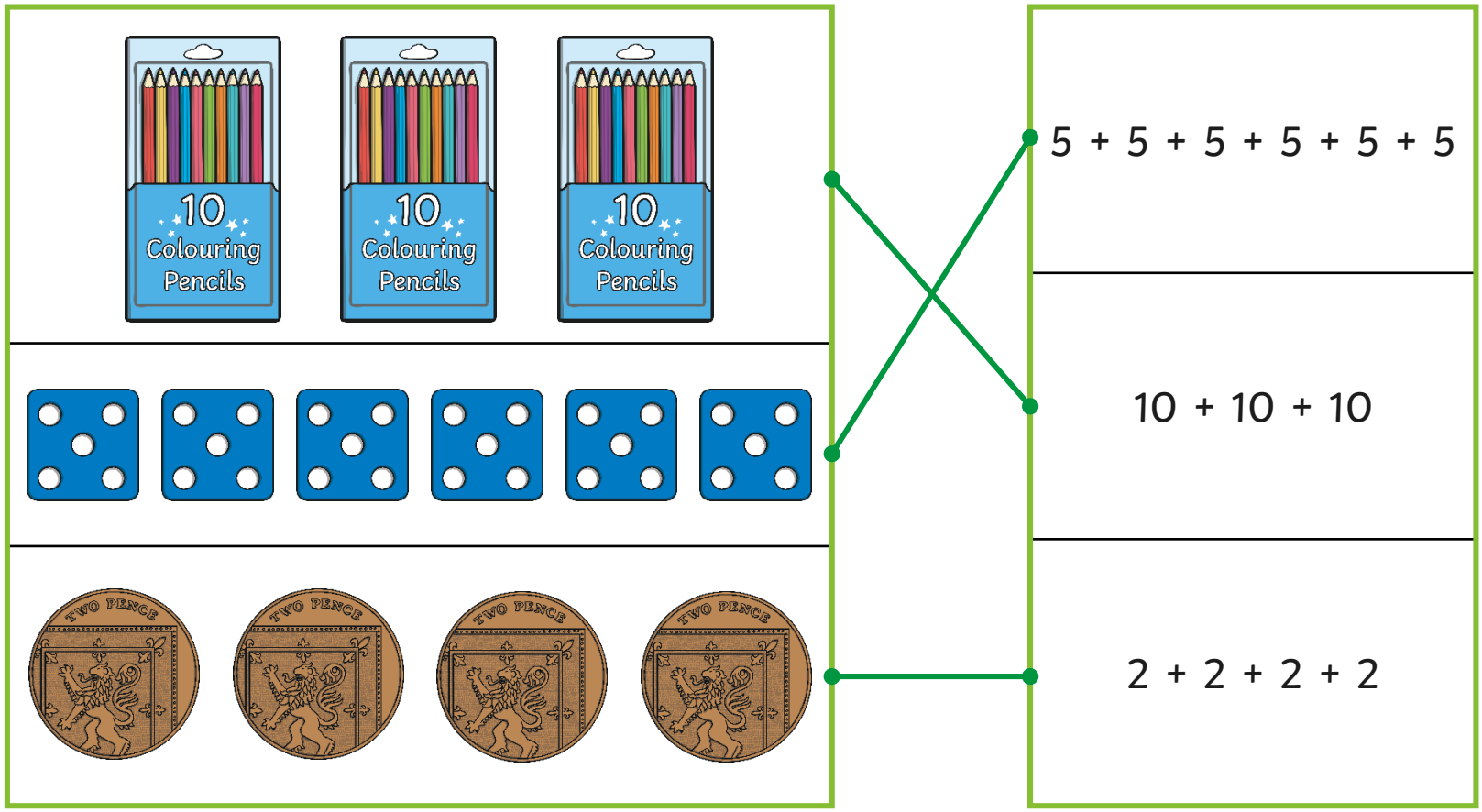
- To write multiplication expressions using the '×' symbol.

Success Criteria

- I can write a repeated addition expression as a multiplication expression.
- I can write multiplication expressions when the group size is 0 or 1.
- I can use the multiplication symbol (×) accurately.

Remember It

Match the picture to the repeated addition expression.



Skip count to find the totals. What do you notice?

The Multiplication Symbol

The 4 represents the number of groups.

4×5

The 5 represents the number of stickers in each group.

This is called a multiplication expression.

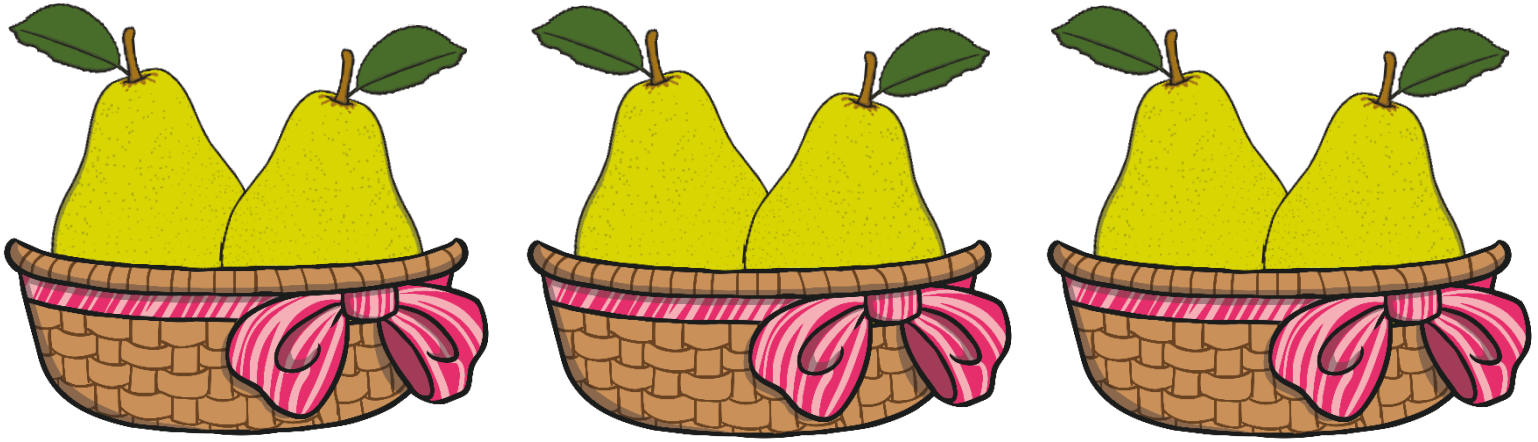
This is the multiplication symbol.

There are **4 groups of 5** stickers.

The Multiplication Symbol

Can you write a multiplication expression for this picture?

Let's look at the multiplication expression.



The 3 represents the number of groups.

We can write this as:

2 + 2 + 2

3 times 2

3 × 2

The 2 represents the number of pairs in each group.

There are **3 groups of 2 pears**.

As a bar model, it would look like this:

2	There are **three twos**.	2

The Multiplication Symbol

Can you write a **repeated addition expression** to match this picture?

2 times 5

5	5

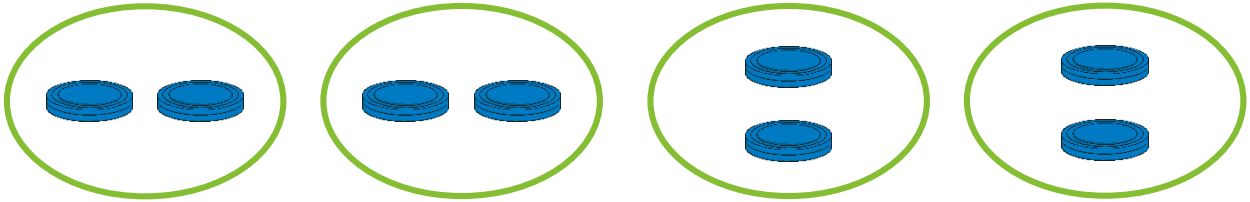
The 2 number represents the number of groups.

The 5 represents the number of children in each group.

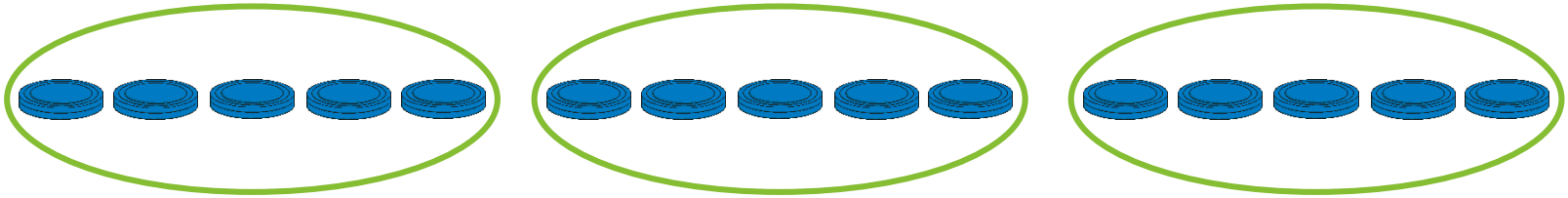
Representing Multiplication Expressions

Fran has used counters to represent this **multiplication** expression:

4 × 2



Can you use counters to represent **3 x 5**?



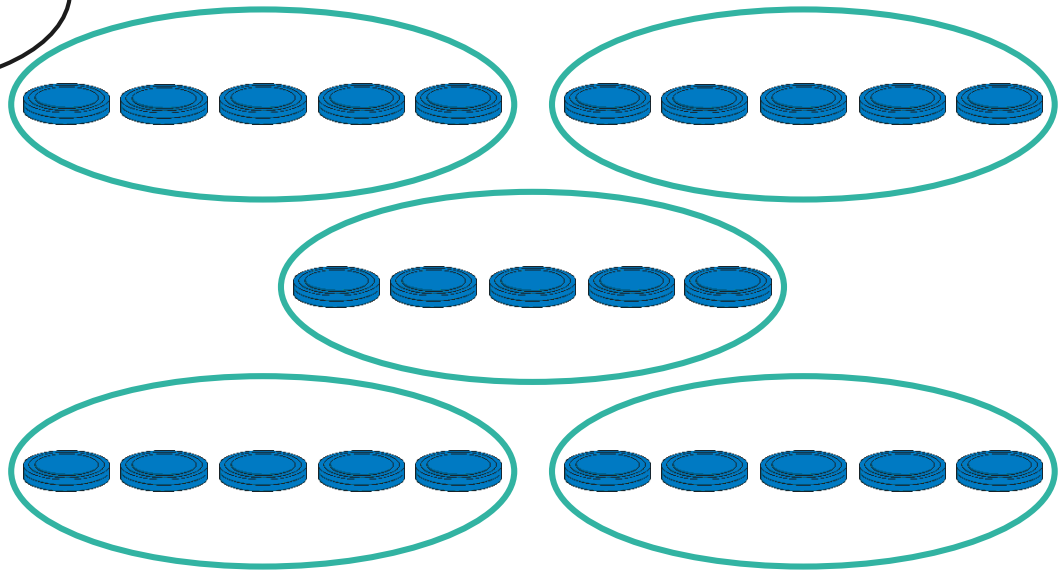
Is **3 groups of 5** the same as **three fives**? Convince me!

Representing Multiplication Expressions

Fran has done a drawing to represent this multiplication expression:

4 × 5

Has she done it correctly? Explain how you know.



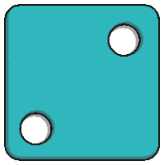
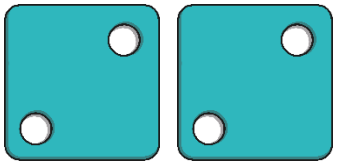
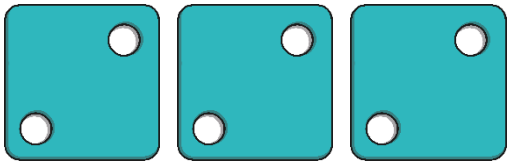
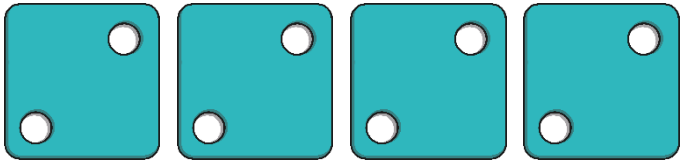
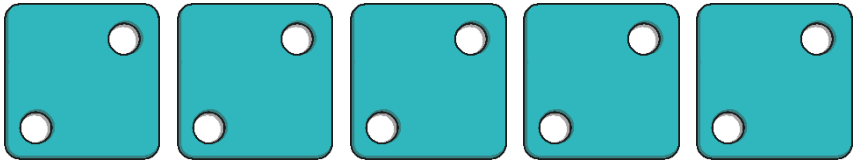
No, Fran's drawing represents **5 × 5**.

Do a drawing to show **4 × 5**.

Check that there are **4** groups with **5** counters in each group.

Linking Expressions

Can you predict what the next line will be?

	2	1 × 2
	2 + 2	2 × 2
	2 + 2 + 2	3 × 2
	2 + 2 + 2 + 2	4 × 2
		

Linking Expressions

What expressions are missing?

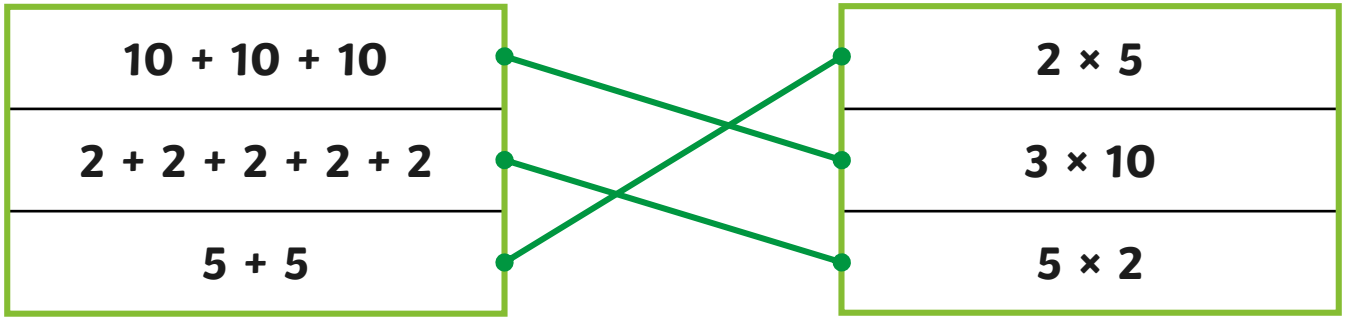
10	1 × 10
10 + 10	2 × 10
10 + 10 + 10	
	4 × 10
10 + 10 + 10 + 10 + 10	

How do you know?

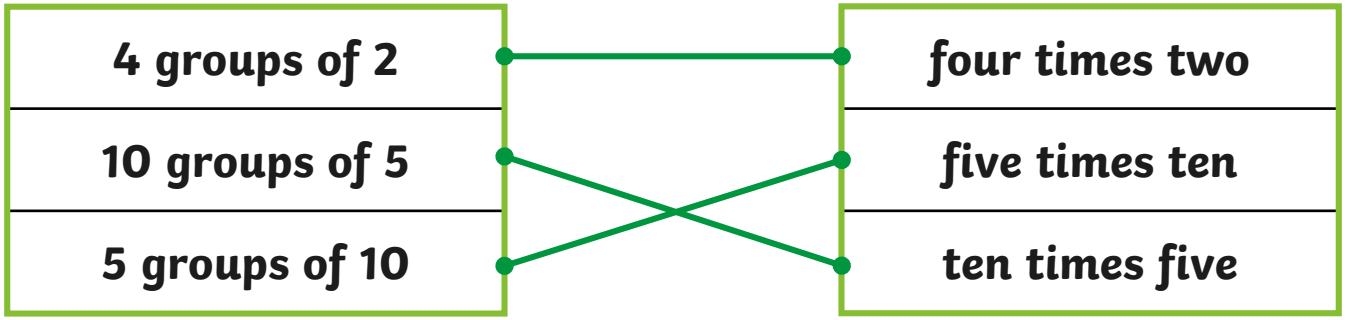
Linking Expressions

Match the expressions.

Hint: you could draw a picture or use equipment to help you.

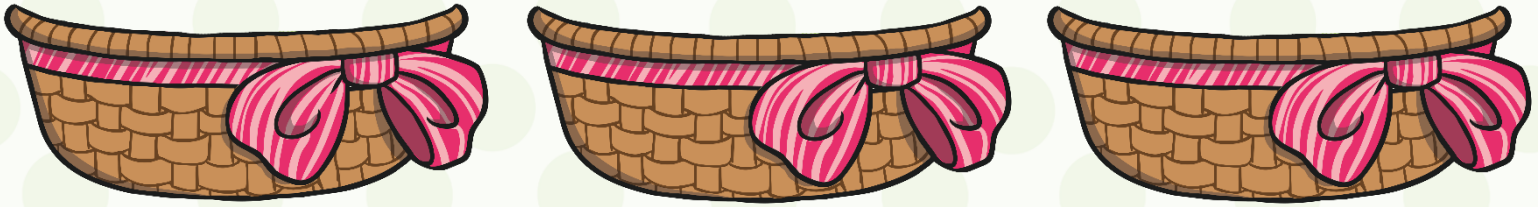


Match the phrases.



Groups of 0 or 1

How many apples are in each fruit bowl?



There are **3** groups of **0** apples.

0 + 0 + 0

three zeros

0	**0**	**0**

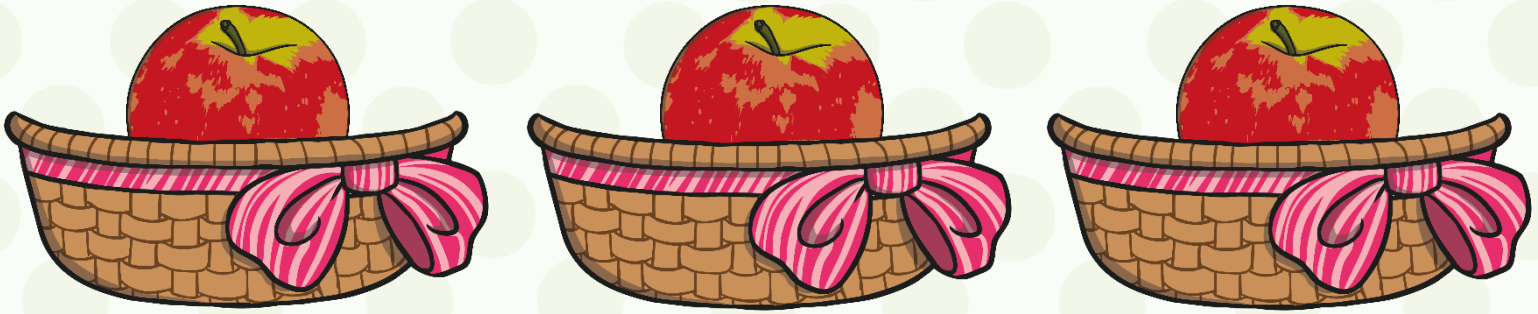
three times zero

3 × 0

If there are **0** apples in each group, there are **0** apples altogether.

Groups of 0 or 1

How many apples are in each fruit bowl?



There are **3** groups of **1** apple.

1 + 1 + 1

three ones

1	1	1

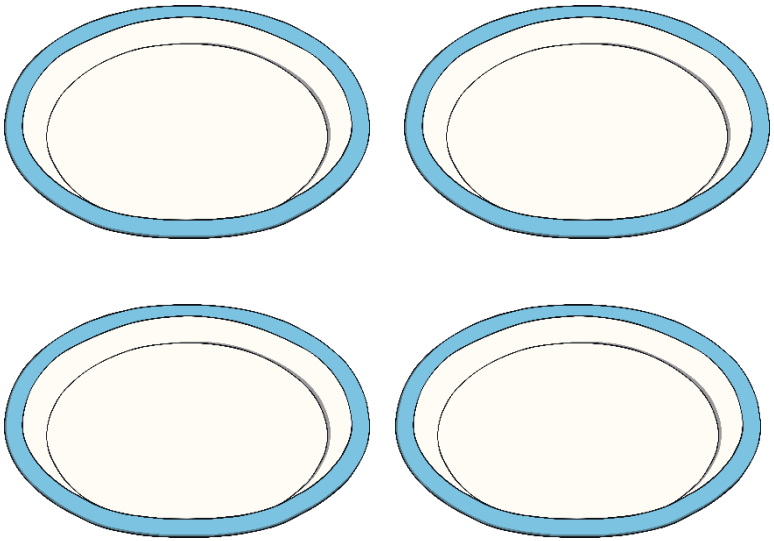
three times one

3 × 1

If there is **1** apple in each group, the total number of apples is equal to the number of groups.

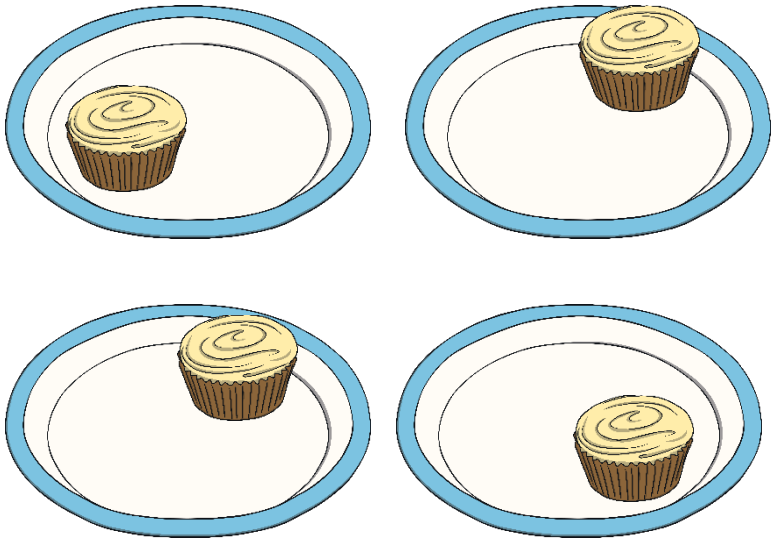
Groups of 0 or 1

Draw bar models and write multiplication expressions to match these pictures.



0	0	0	0

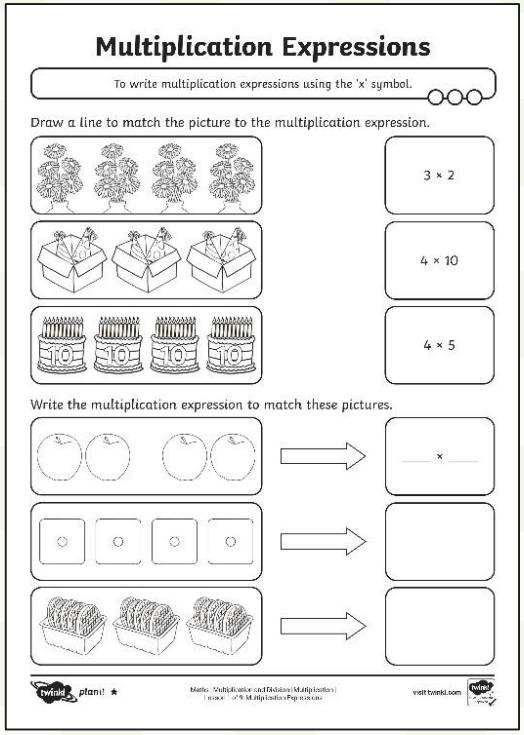
4×0



1	1	1	1

4×1

Multiplication Expressions



Multiplication Expressions

To write multiplication expressions using the 'x' symbol.

Draw a line to match the picture to the multiplication expression.

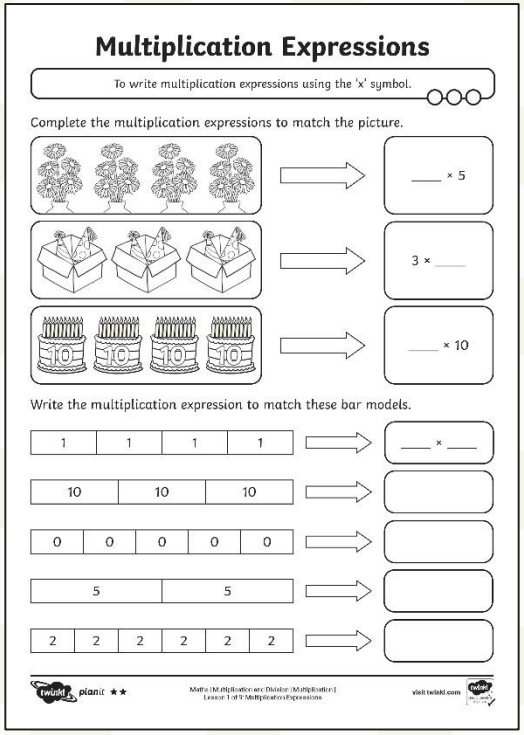
3 × 2

4 × 10

4 × 5

Write the multiplication expression to match these pictures.

___ × ___



Multiplication Expressions

To write multiplication expressions using the 'x' symbol.

Complete the multiplication expressions to match the picture.

___ × 5

3 × ___

___ × 10

Write the multiplication expression to match these bar models.

1	1	1	1

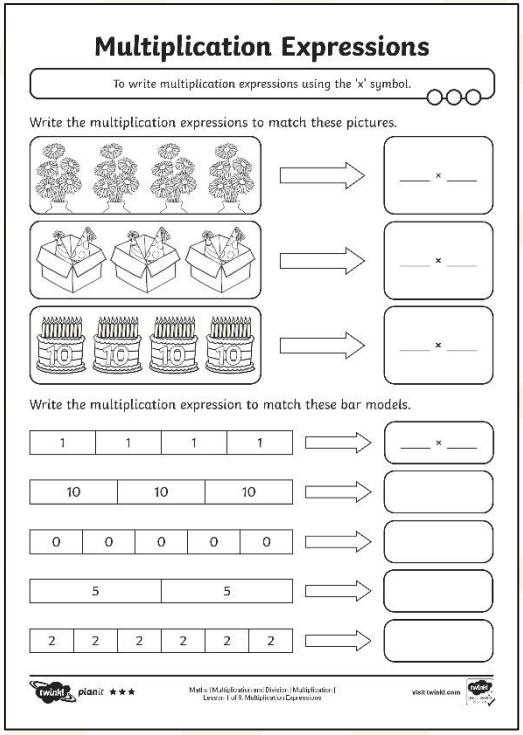
___ × ___

10	10	10

0	0	0	0	0

5	5

2	2	2	2	2	2



Multiplication Expressions

To write multiplication expressions using the 'x' symbol.

Write the multiplication expressions to match these pictures.

___ × ___

___ × ___

___ × ___

Write the multiplication expression to match these bar models.

1	1	1	1

___ × ___

10	10	10

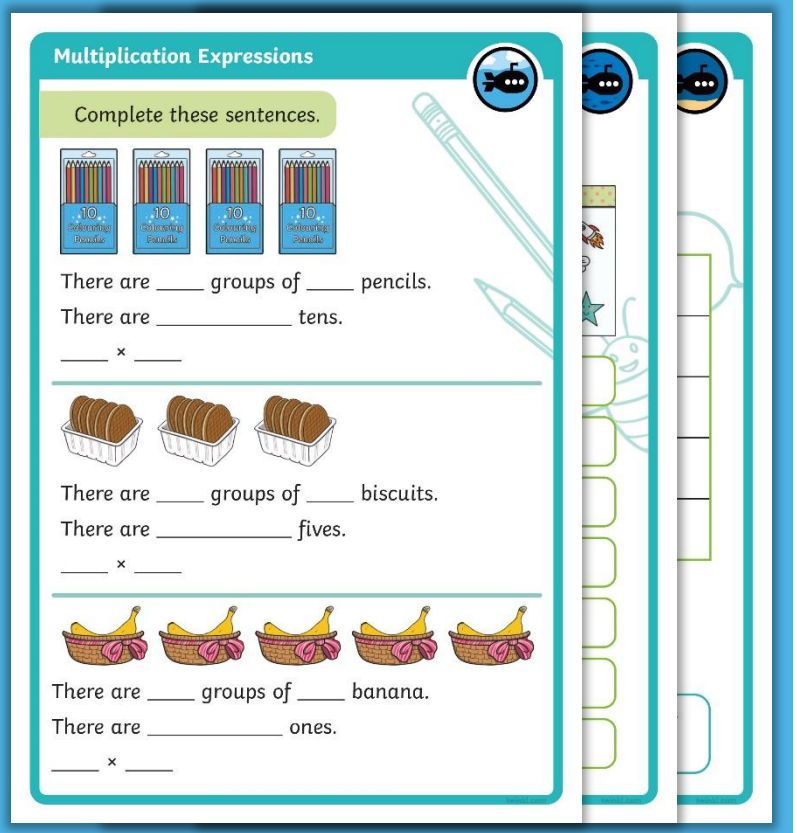
0	0	0	0	0

5	5

2	2	2	2	2	2

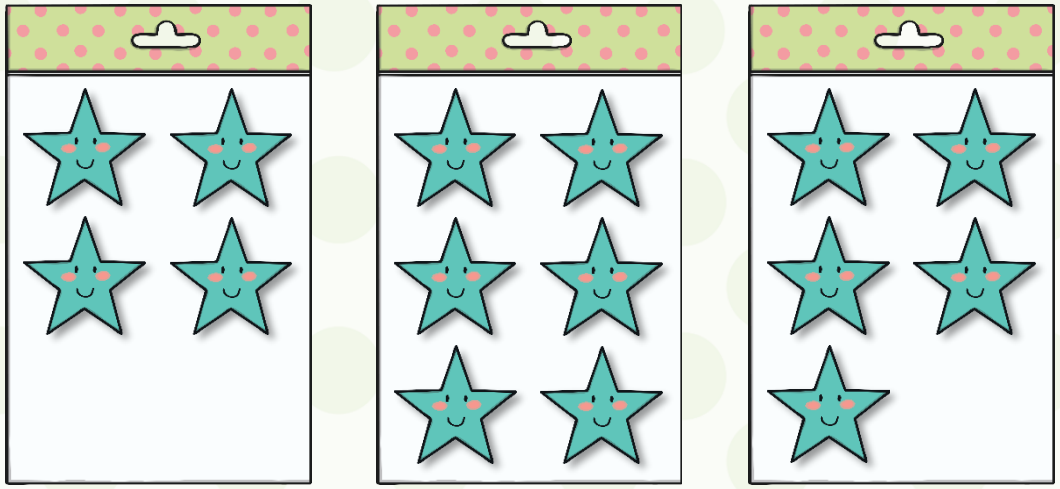
Diving into Mastery

Dive in by completing your own activity!



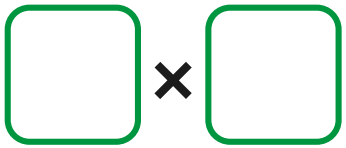
Multiplication Puzzle

I can't write a multiplication expression to match this picture.



Do you agree? Why?

What would you need to do before writing a multiplication expression to match this picture?



Multiplication Puzzle

Can you complete the repeated addition and multiplication expressions?

$5 + 5 + 5 + 5 = \square \times \square$

$\square + \square + \square + \square + \square + \square = 6 \times 2$

$3 + 3 + 3 + 3 + 3 = \square \times \square$

Aim

- To write multiplication expressions using the '×' symbol.

Success Criteria

- I can write a repeated addition expression as a multiplication expression.
- I can write multiplication expressions when the group size is 0 or 1.
- I can use the multiplication symbol (×) accurately.