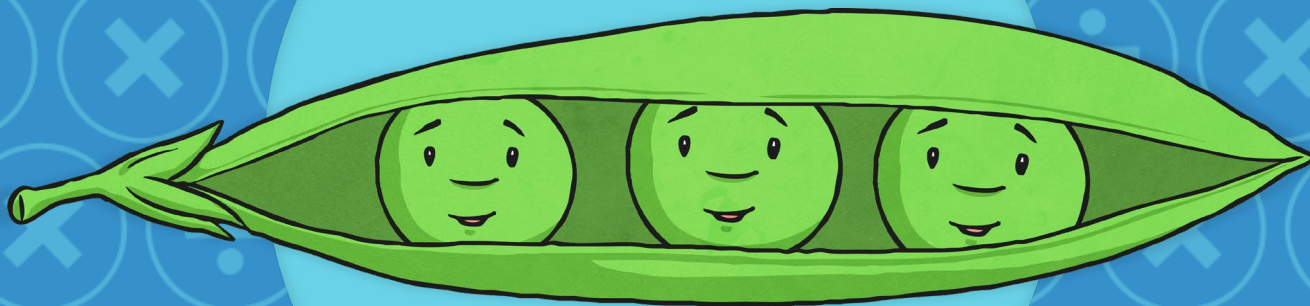




Maths

Multiplication and Division

The 3s



Aim

- I can multiply and divide by 3.

Success Criteria

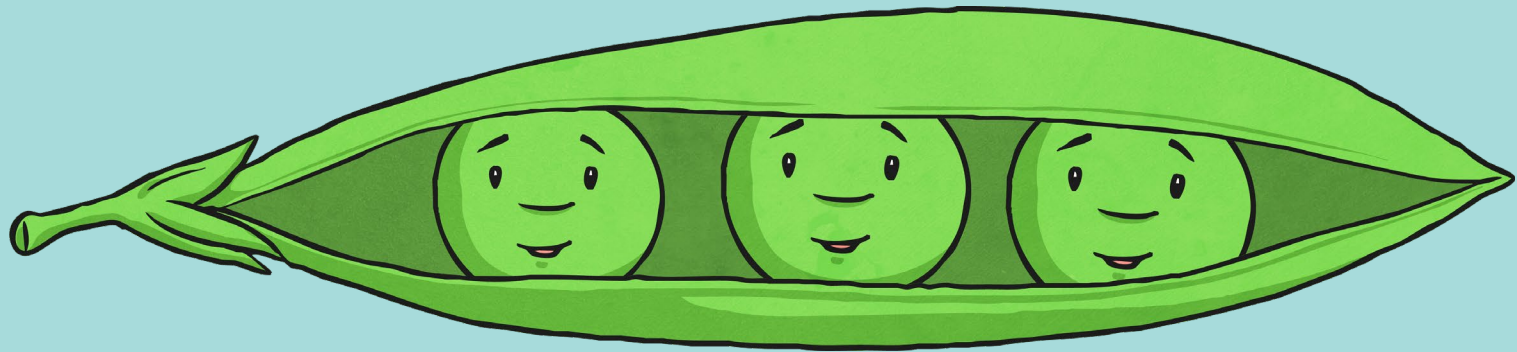
- I can count in 3s.
- I can recognise multiples of 3.
- I can write multiplication statements for arrays.
- I can use arrays to find division facts.
- I can use my knowledge of the $3\times$ table to find division facts.
- I can solve multiplication and division word problems using these facts.

Hot Potato Game



Pass the potato as quickly as you can. It is really hot!

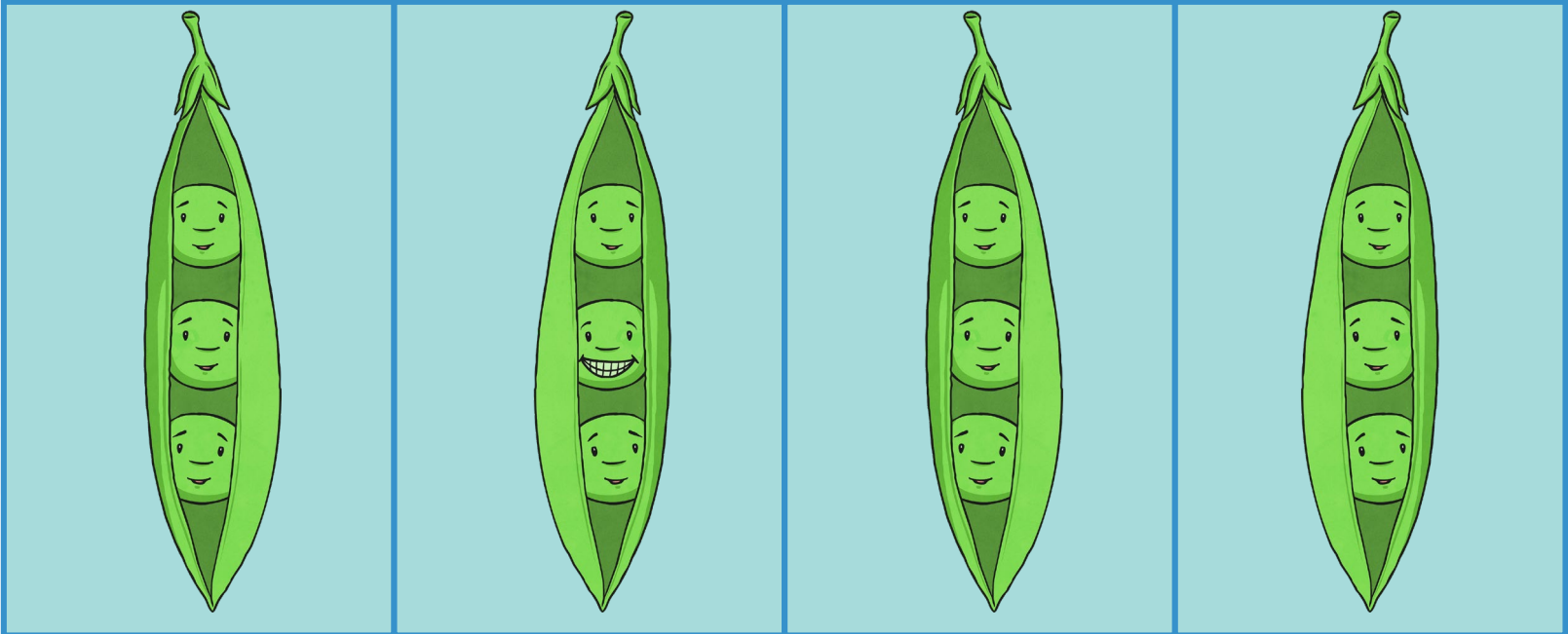
Let's Count in 3s!



Three Peas Please



How many peas are there in this picture?



How did you count them?

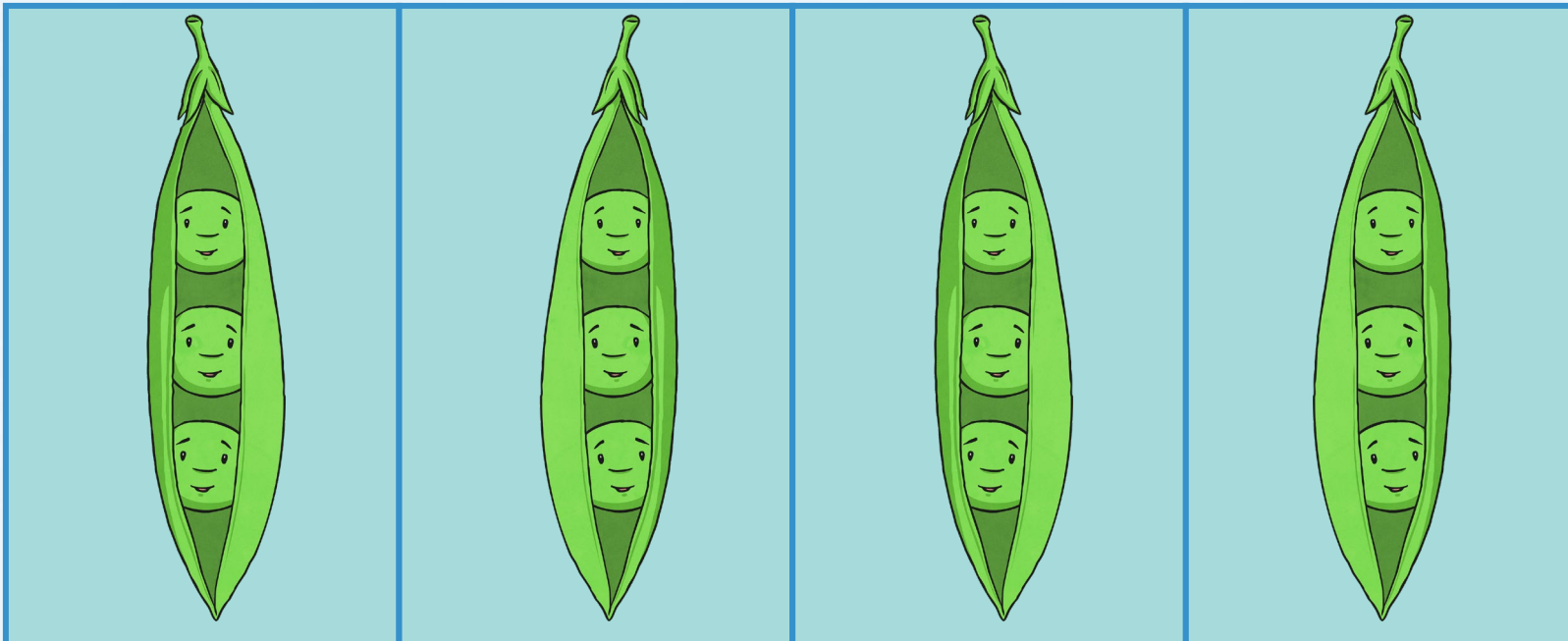
Three Peas Please

Peas like to be in pods. Pea pods can be as big as you like but they must contain the **same number of peas** in each pod.



Three Peas Please

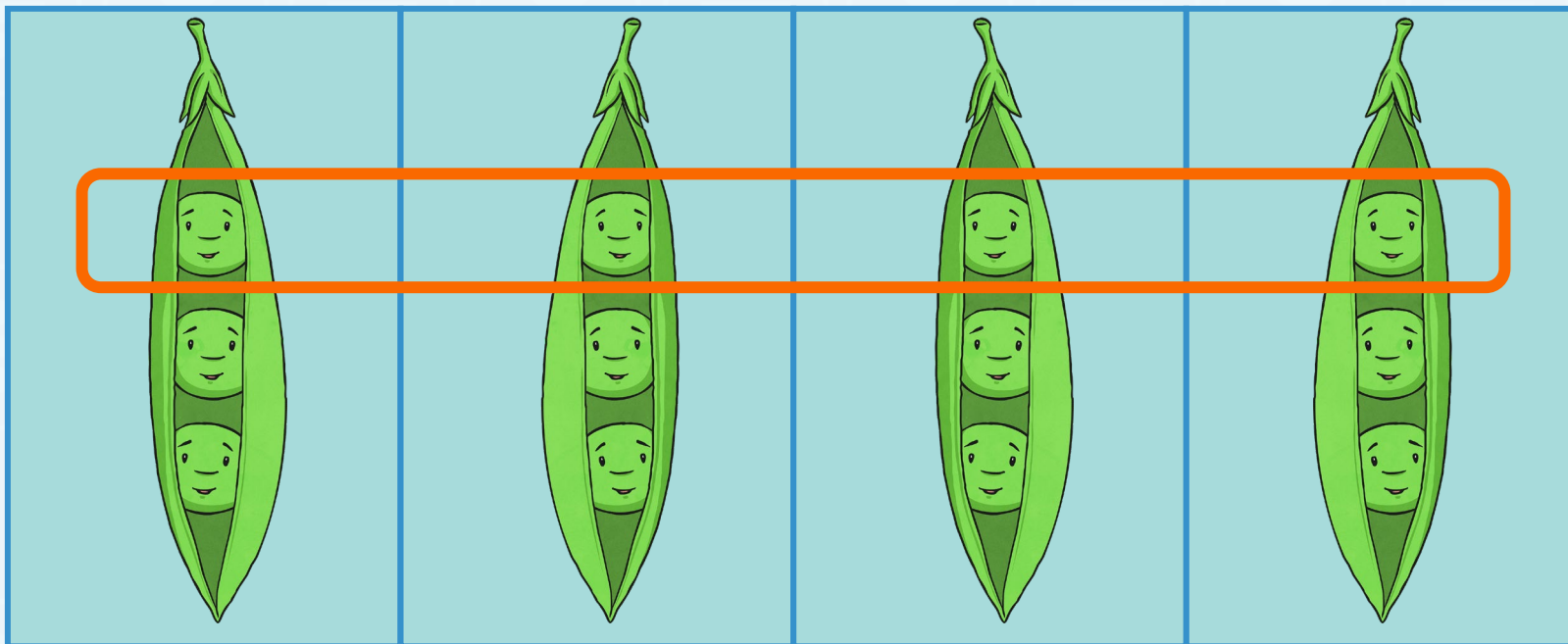
These 12 peas are in 4 groups of 3



$$4 \times 3 = 12$$

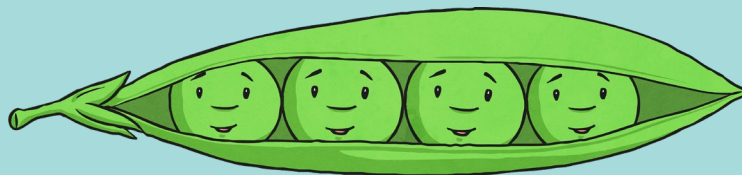
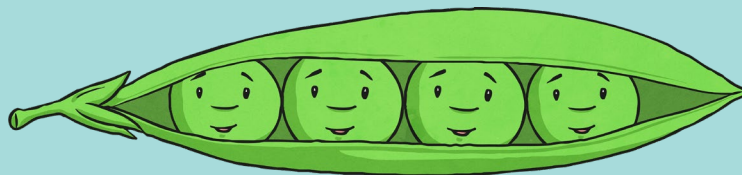
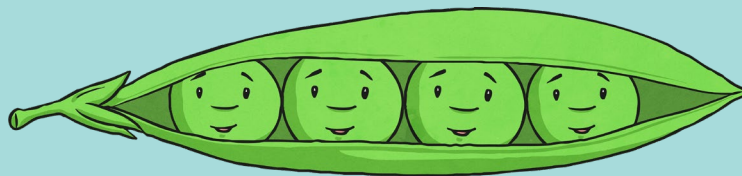
Three Peas Please

What if we looked at the horizontal groups instead?



Three Peas Please

What if we had pods that held 4 peas?

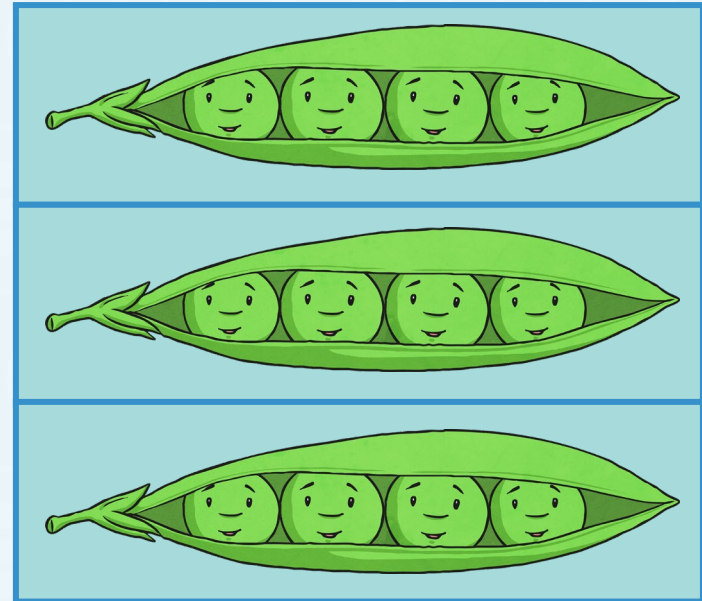
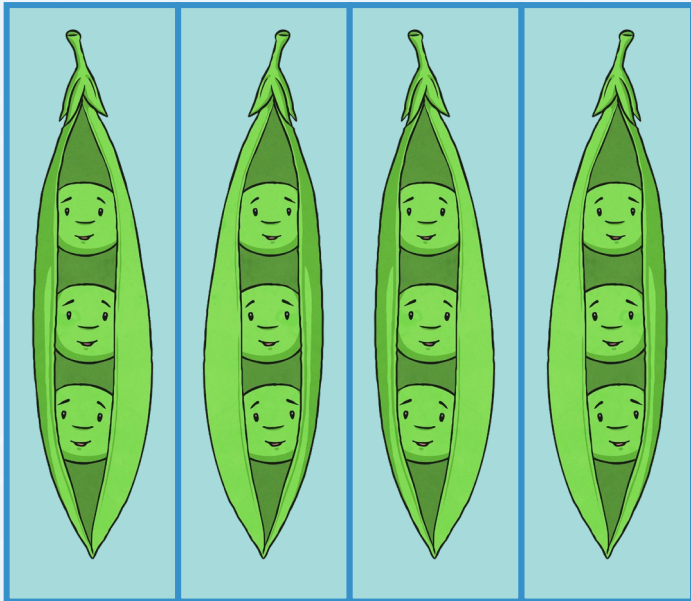


$$3 \times 4 = 12$$

Three Peas Please

$$4 \times 3 = 12$$

$$3 \times 4 = 12$$

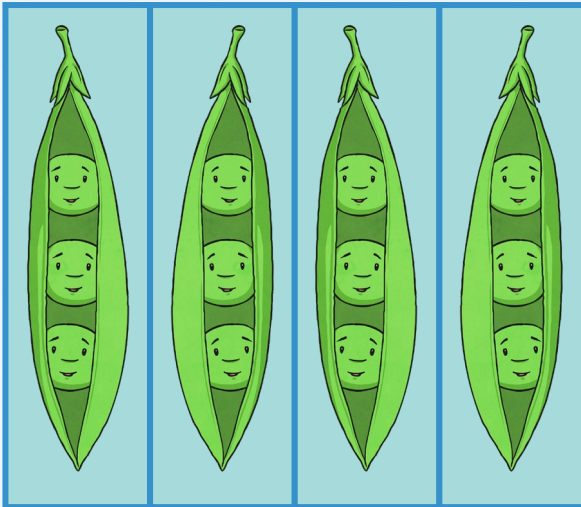


We can write 2 multiplication statements about our group of 12 peas.

Three Peas Please

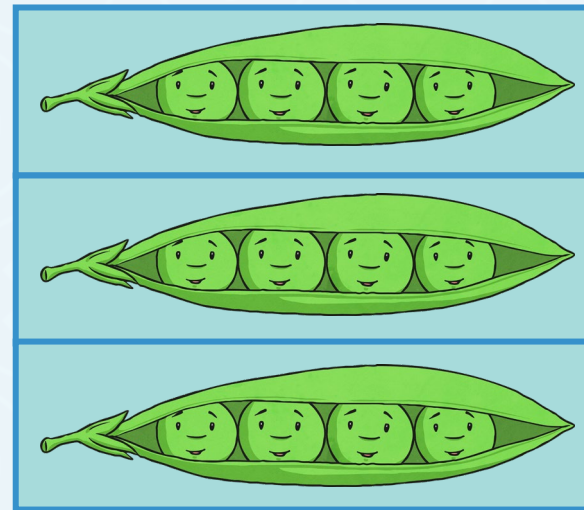
When we grouped our 12 peas into pods of 3, we had 4 pods.

$$12 \div 3 = 4$$



When we grouped our 12 peas into pods of 4, we had 3 pods.

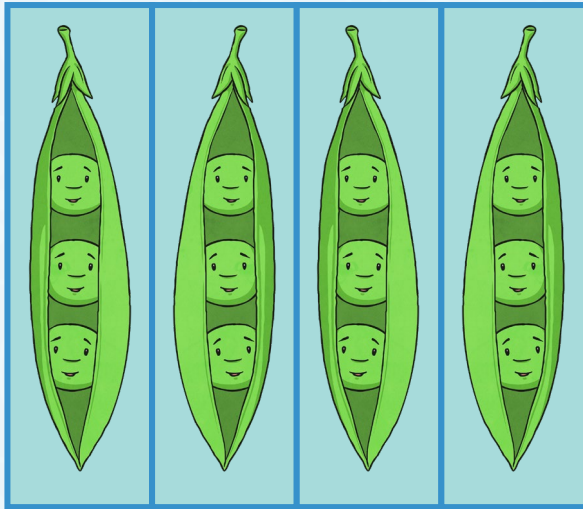
$$12 \div 4 = 3$$



Look carefully at the division statements. **Both** of our division statements start with the total number of peas, which in this case is 12.

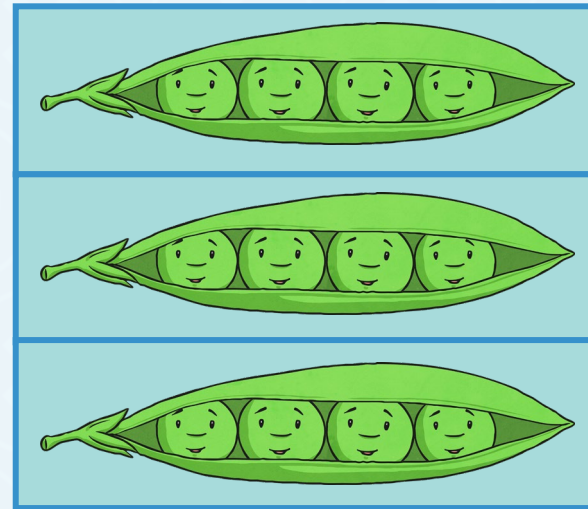
Three Peas Please

We can make 4 number statements about our groups of 12 peas.



$$3 \times 4 = 12$$

$$12 \div 4 = 3$$



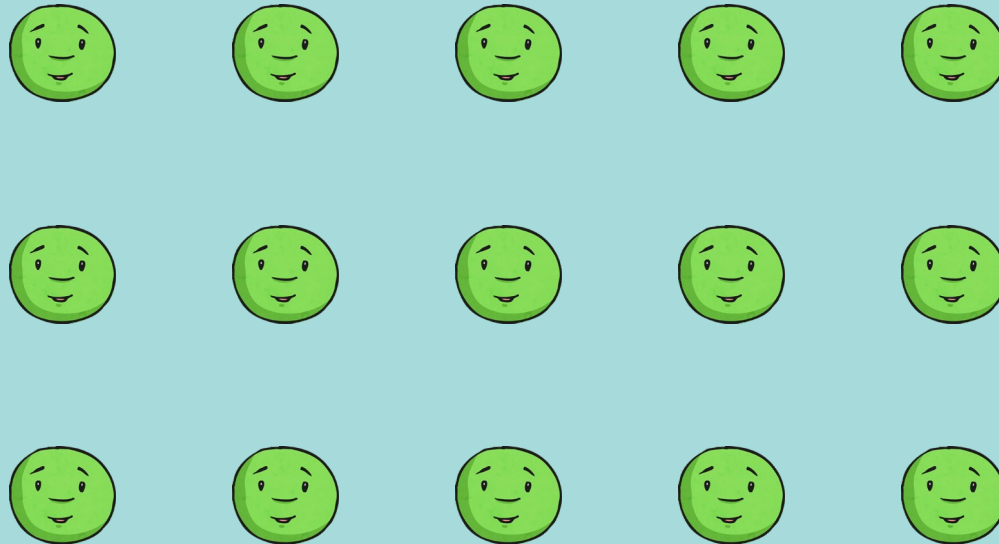
$$4 \times 3 = 12$$

$$12 \div 3 = 4$$

Three Peas Please



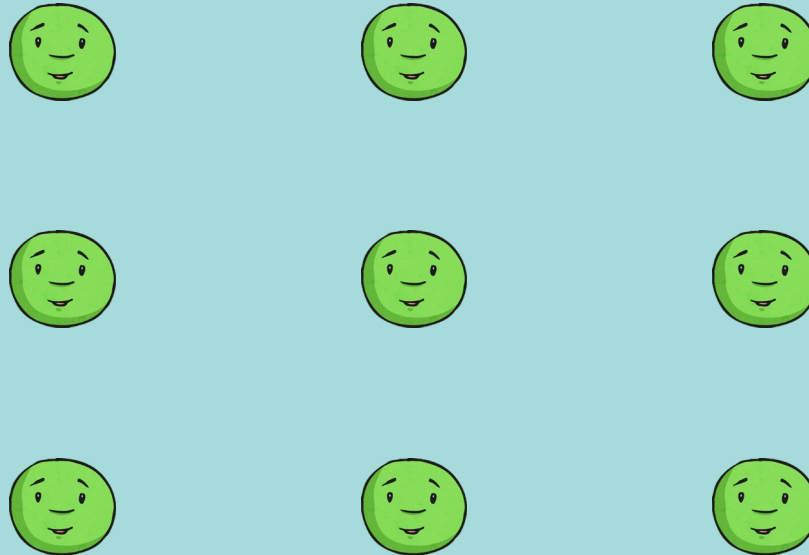
Can you write 2 multiplication and 2 division statements about these peas?



Three Peas Please



How about these? How many facts can you write?



9 is a square number

The 3s Activity



Grouping Peas in Threes

I can recall and use facts from the 3x table.

Write 2 multiplication facts and 2 division facts for each group of 3.

- How many peas can you see? Count the peas in 3s.

Complete these multiplication and division facts.

- $3 \times \square = \square$
- $\square \div 3 = \square$
- $\square \times 3 = \square$
- $\square \div 3 = \square$

6. Can you find 4 facts for each of these? Sketch the rows of peas on the back of the card.

- 27
- 33
- 6
- 30
- 15

Grouping Peas in Threes

I can recall and use facts from the 3x table.

Complete these multiplication and division facts.

- $3 \times \square = 18$
- $\square \times 3 = 18$
- $18 \div \square = 6$
- $18 \div 3 = \square$

Complete these multiplication and division facts.

- $3 \times \square = \square$
- $\square \times 3 = \square$
- $\square \div 3 = \square$
- $\square \div 3 = \square$

Grouping Peas in Threes

I can recall and use facts from the 3x table.

Count 18 counters. Put them in groups of 3 like this:

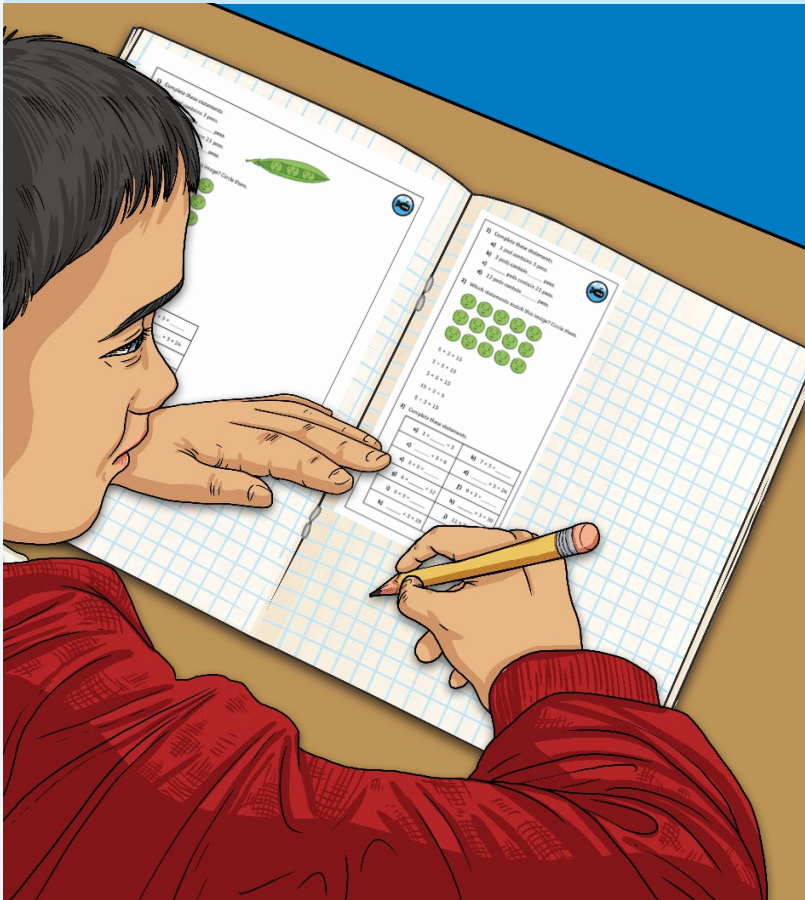
- How many groups of 3 do you have?
- $3 \times \square = 18$

Now group them in groups of 6.

- $\square \times 3 = 18$

Diving into Mastery

Dive in by completing your own activity!



1) Complete these statements.

- a) 1 pod contains 3 peas.
- b) 3 pods contain ____ peas.
- c) ____ pods contain 21 peas.
- d) 12 pods contain ____ peas.



2) Which statements match this image? Circle them.



- $5 \times 3 = 15$
- $3 \times 5 = 15$
- $3 \times 5 = 15$
- $15 \div 3 = 5$
- $5 \div 3 = 15$

3) Complete these statements.

- | | |
|--------------------------------------|--------------------------------------|
| a) $1 \times \underline{\quad} = 3$ | b) $7 \times 3 = \underline{\quad}$ |
| c) $\underline{\quad} \times 3 = 6$ | d) $\underline{\quad} \times 3 = 24$ |
| e) $3 \times 3 = \underline{\quad}$ | f) $9 \div 3 = \underline{\quad}$ |
| g) $4 \times \underline{\quad} = 12$ | h) $\underline{\quad} \times 3 = 30$ |
| i) $5 \times 3 = \underline{\quad}$ | j) $11 \times 3 = \underline{\quad}$ |
| k) $\underline{\quad} \times 3 = 18$ | l) $\underline{\quad} \times 3 = 36$ |

1) Complete these statements.

- a) 1 pod contains 3 peas.
- b) 3 pods contain ____ peas.
- c) ____ pods contain 21 peas.
- d) 12 pods contain ____ peas.



2) Which statements match this image? Circle them.



- $5 \times 3 = 15$
- $3 \times 5 = 15$
- $3 \times 5 = 15$
- $15 \div 3 = 5$
- $5 \div 3 = 15$

3) Complete these statements.

- | | |
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| e) $3 \times 3 = \underline{\quad}$ | f) $9 \div 3 = \underline{\quad}$ |
| g) $4 \times \underline{\quad} = 12$ | h) $\underline{\quad} \times 3 = 30$ |
| i) $5 \times 3 = \underline{\quad}$ | j) $11 \times 3 = \underline{\quad}$ |
| k) $\underline{\quad} \times 3 = 18$ | l) $\underline{\quad} \times 3 = 36$ |



Teams of 3



Can we make an array?

What are the multiplication and division facts?



Aim



- I can multiply and divide by 3.

Success Criteria

- I can count in 3s.
- I can recognise multiples of 3.
- I can write multiplication statements for arrays.
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