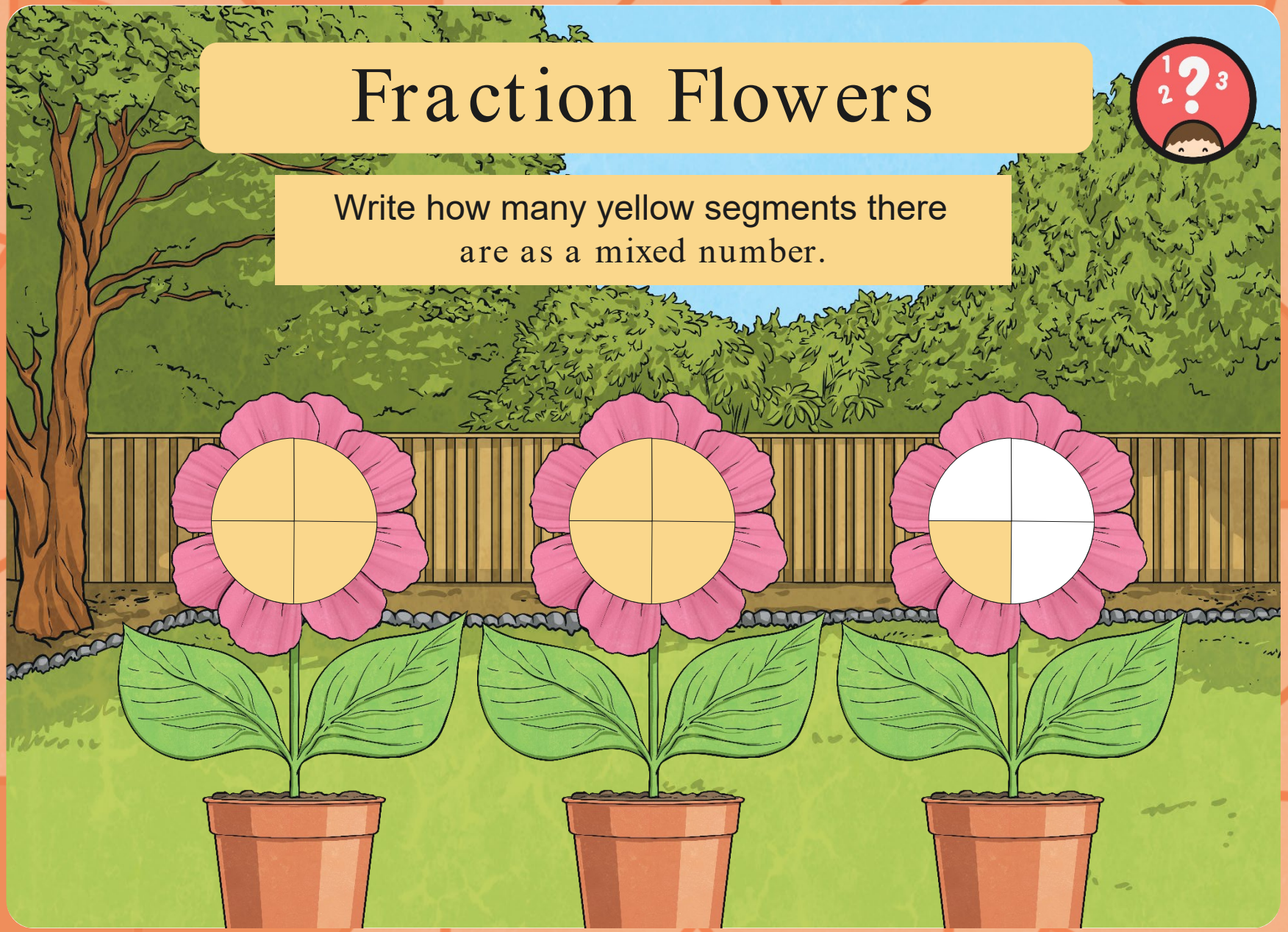
Fraction Flower Garden

twinkl

twinkl
Quality Standard
Approved

Fraction Flowers

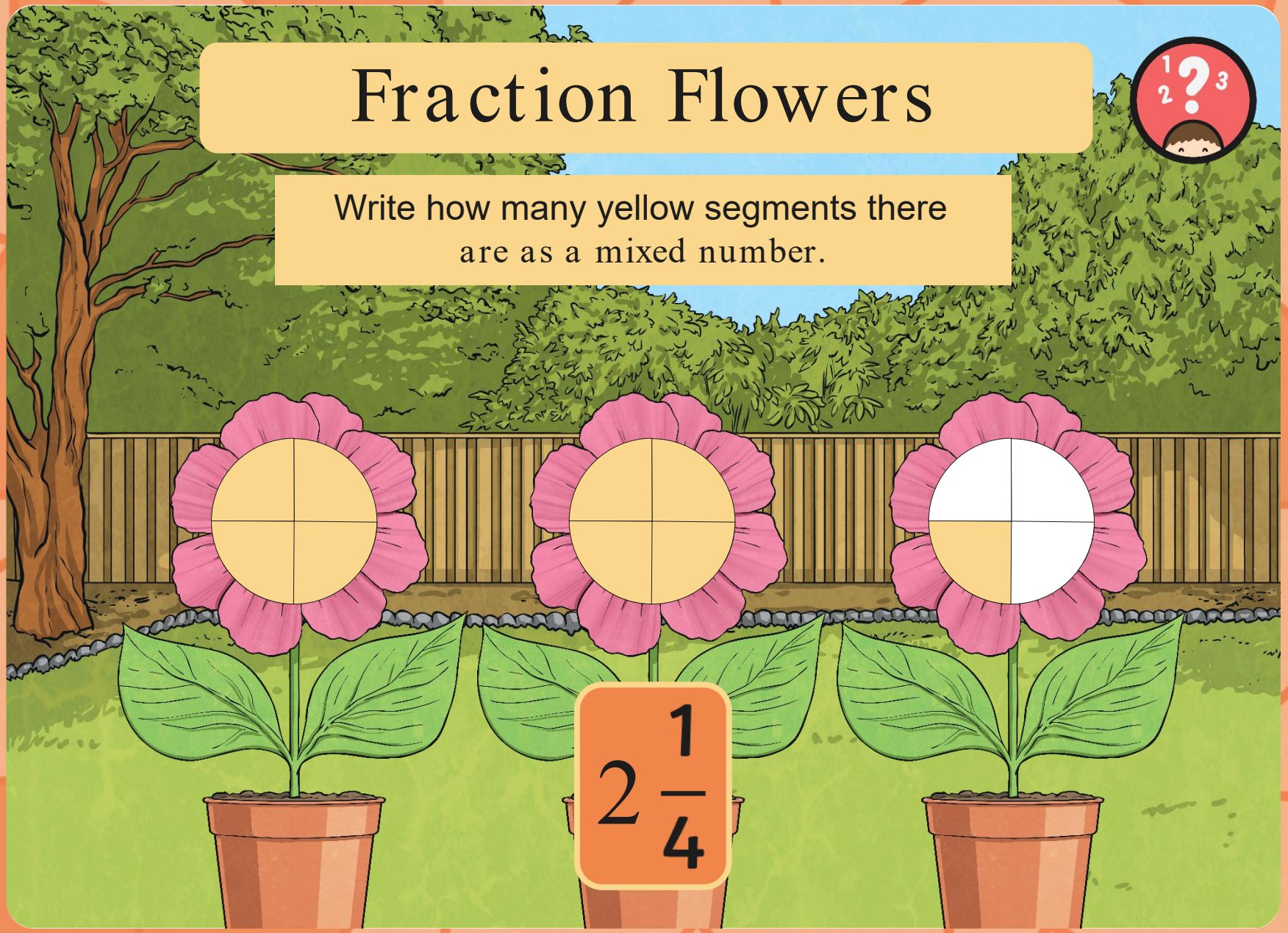
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

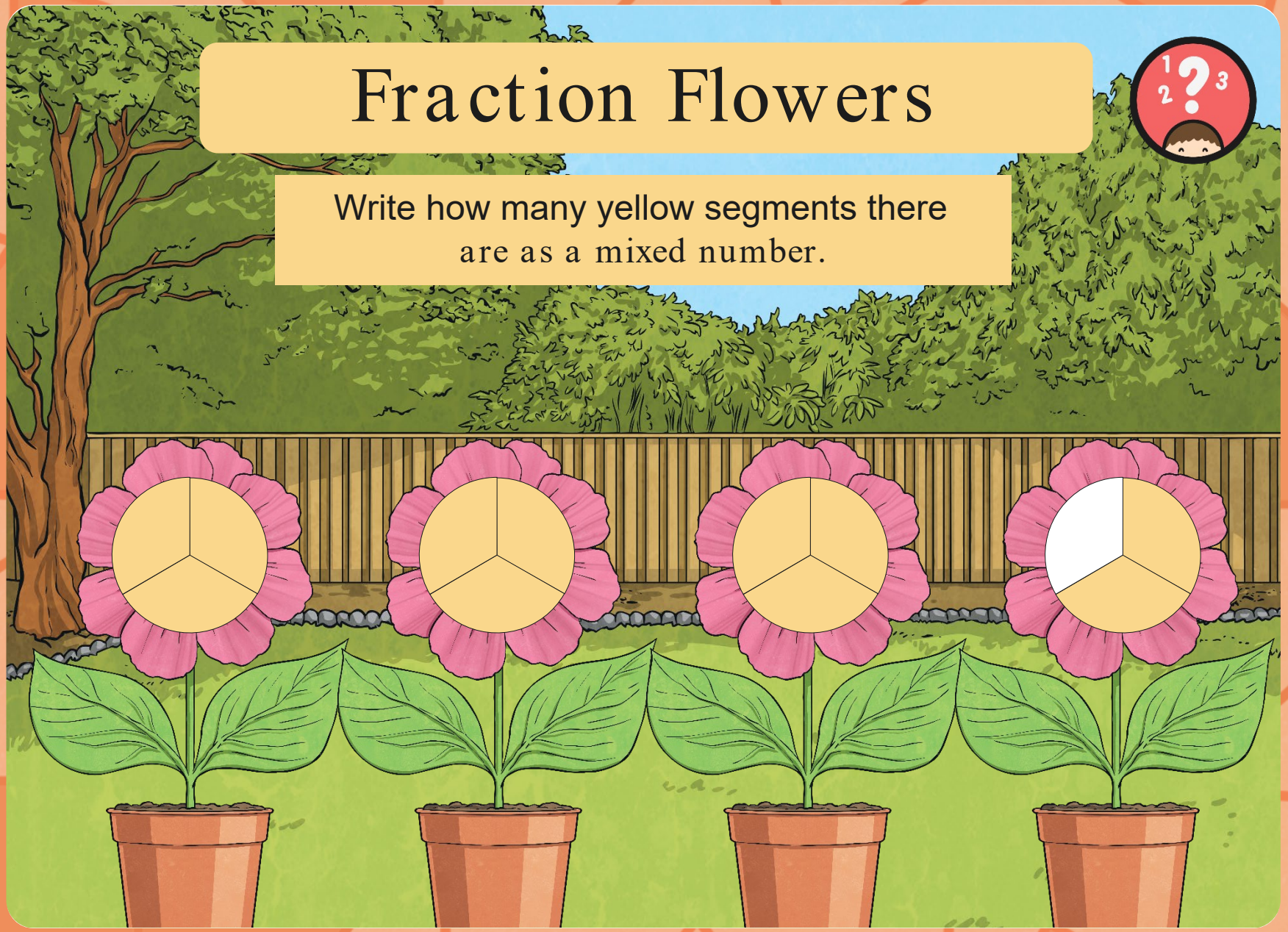
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

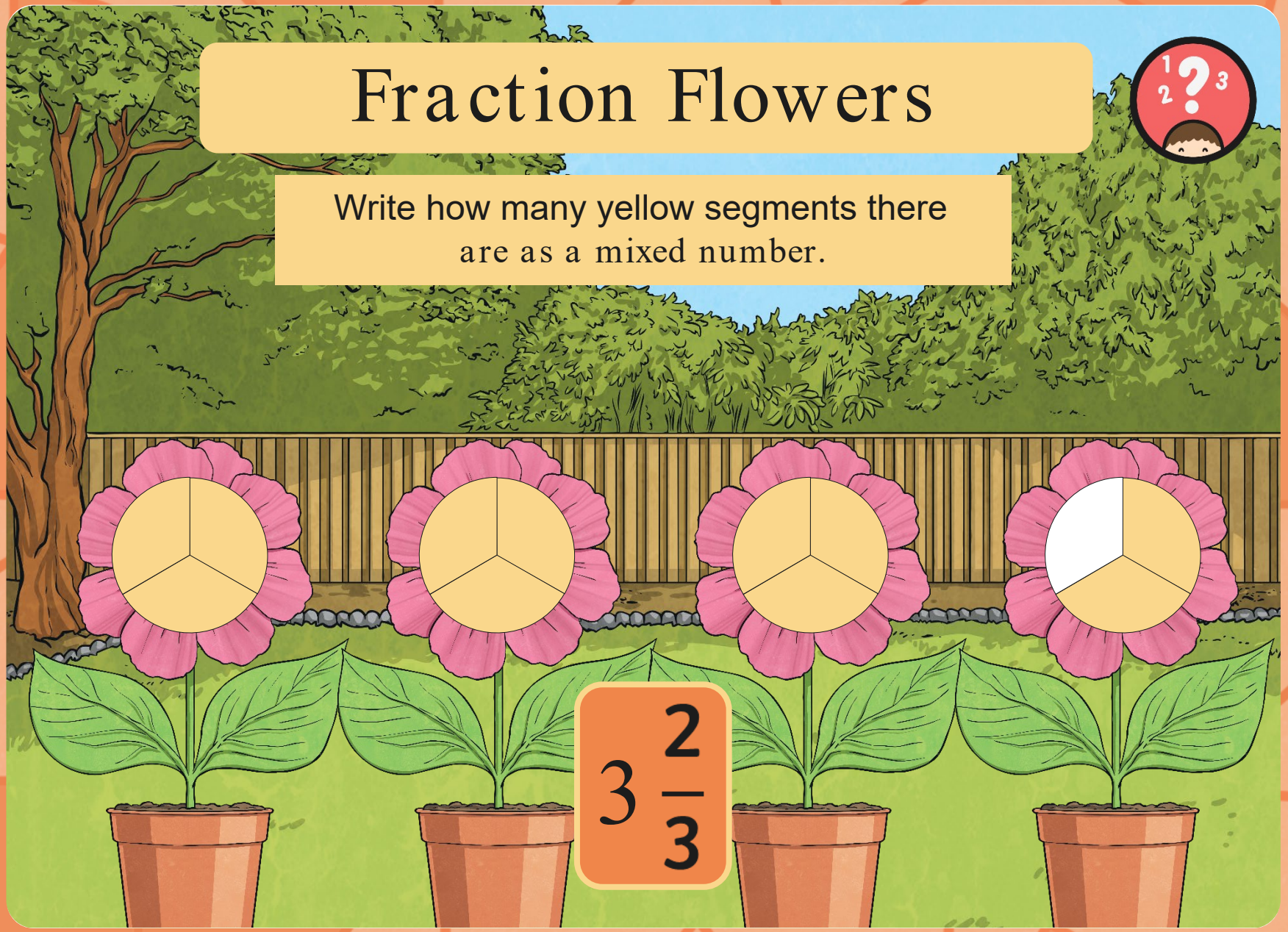
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

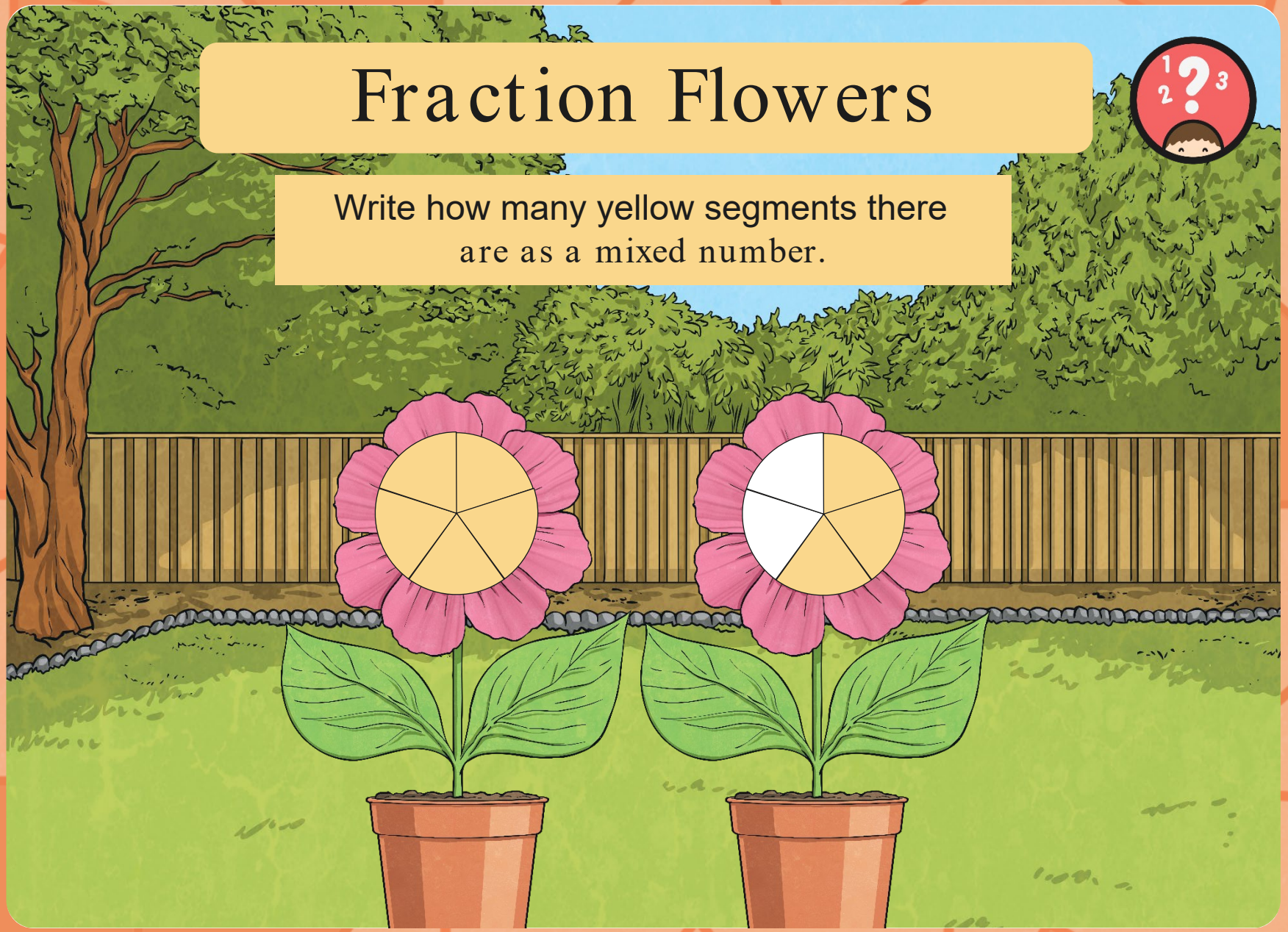
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

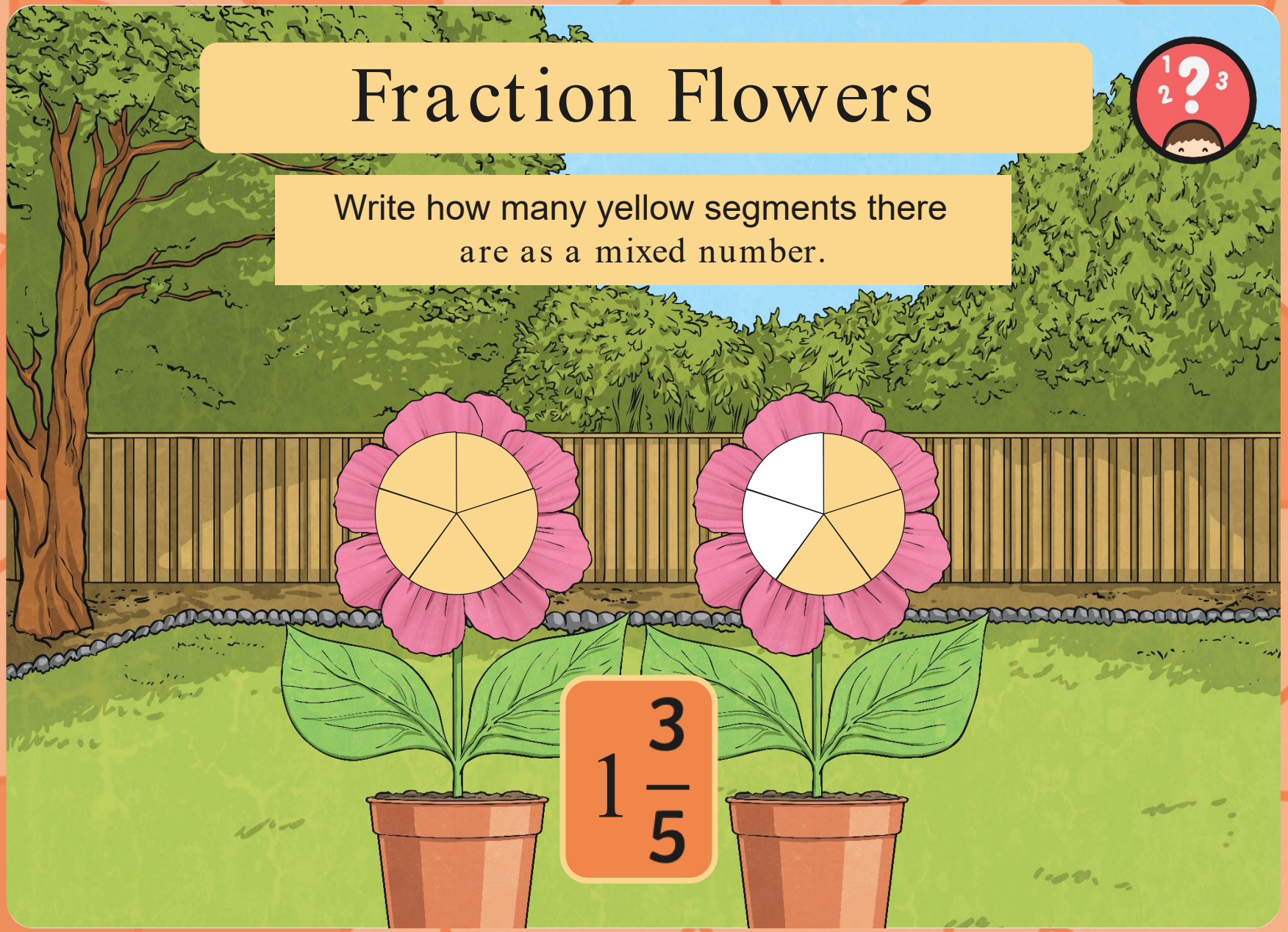
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

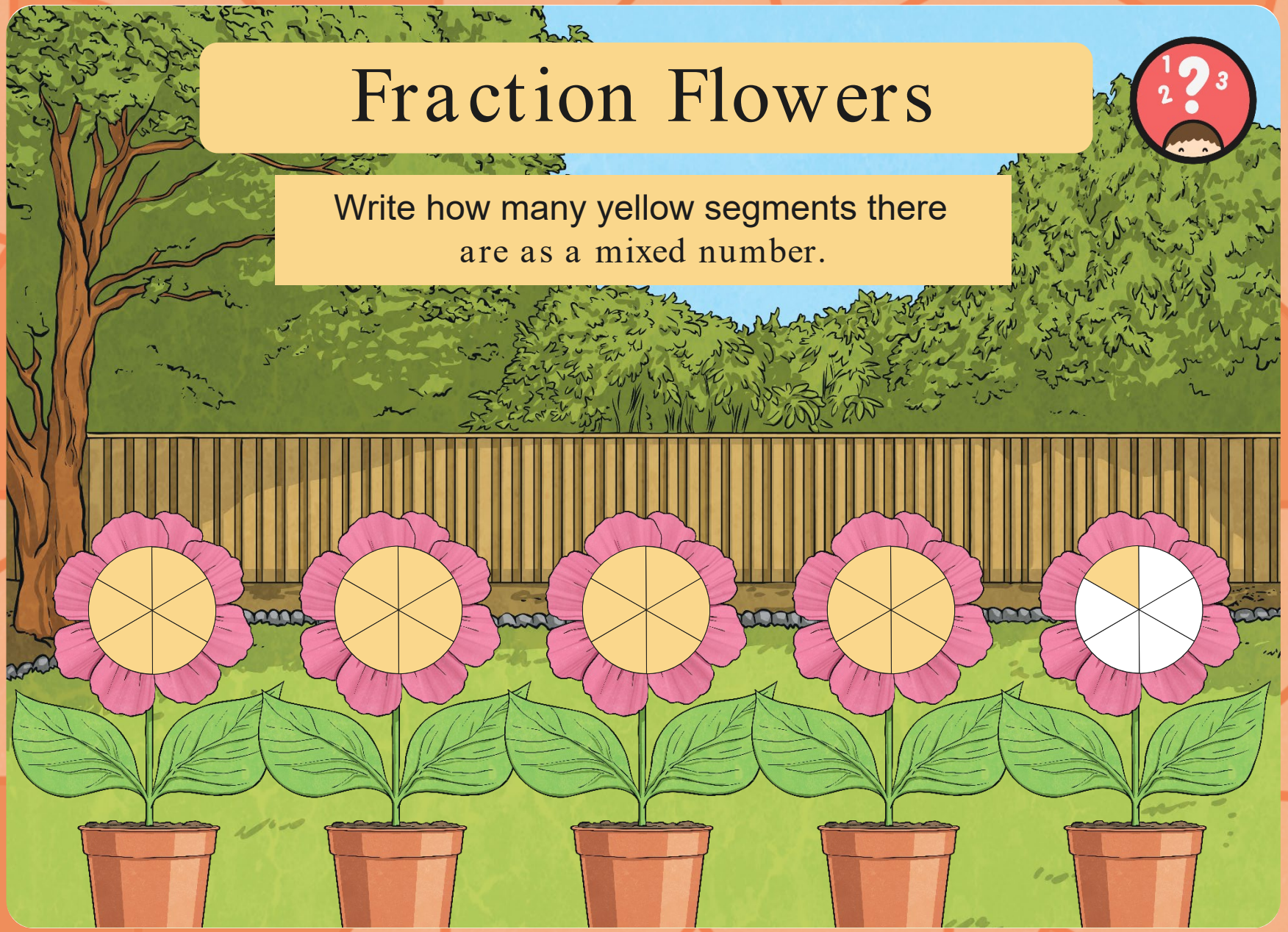
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

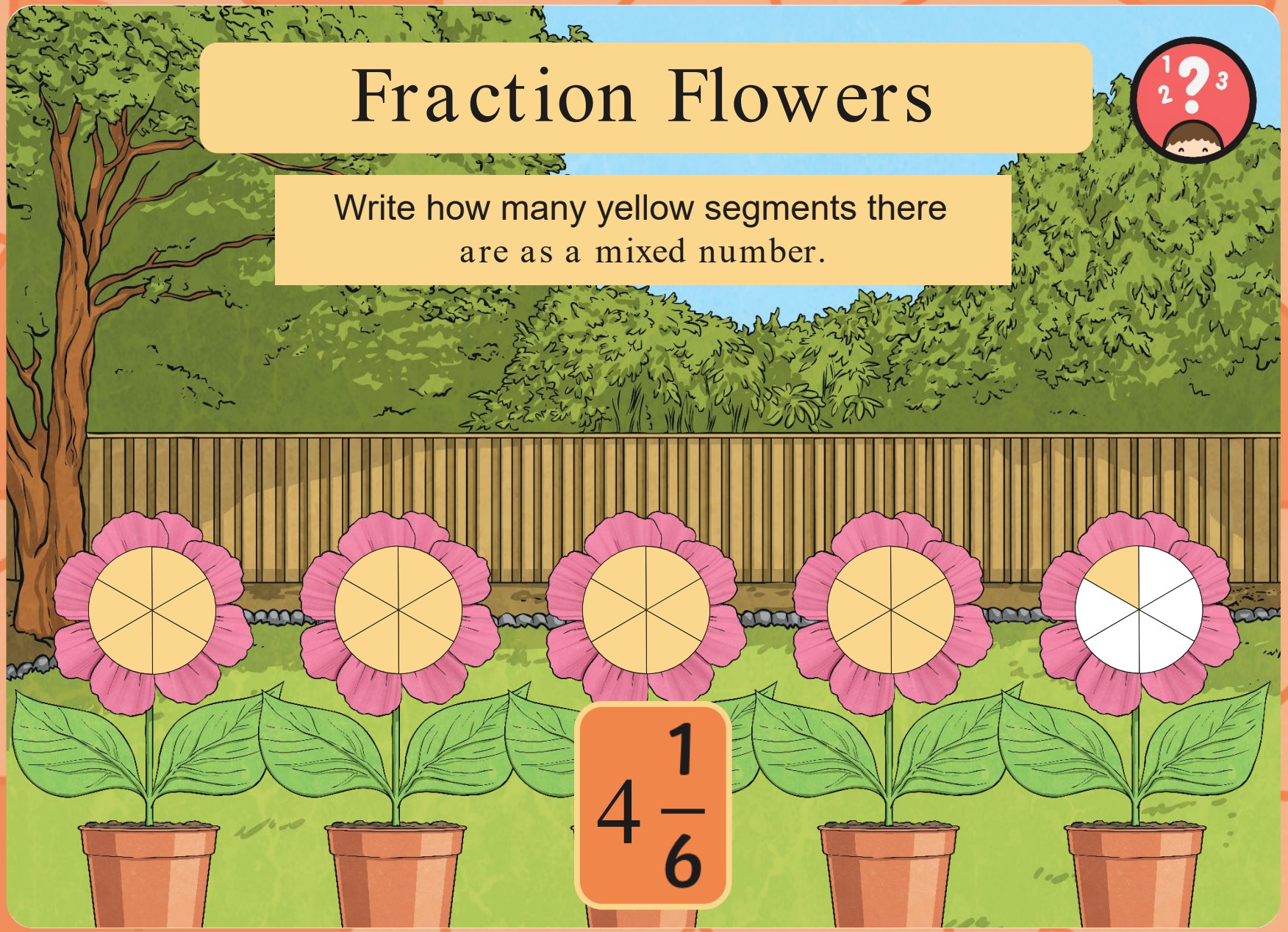
Write how many yellow segments there are as a mixed number.



twinkl.com

Fraction Flowers

Write how many yellow segments there are as a mixed number.

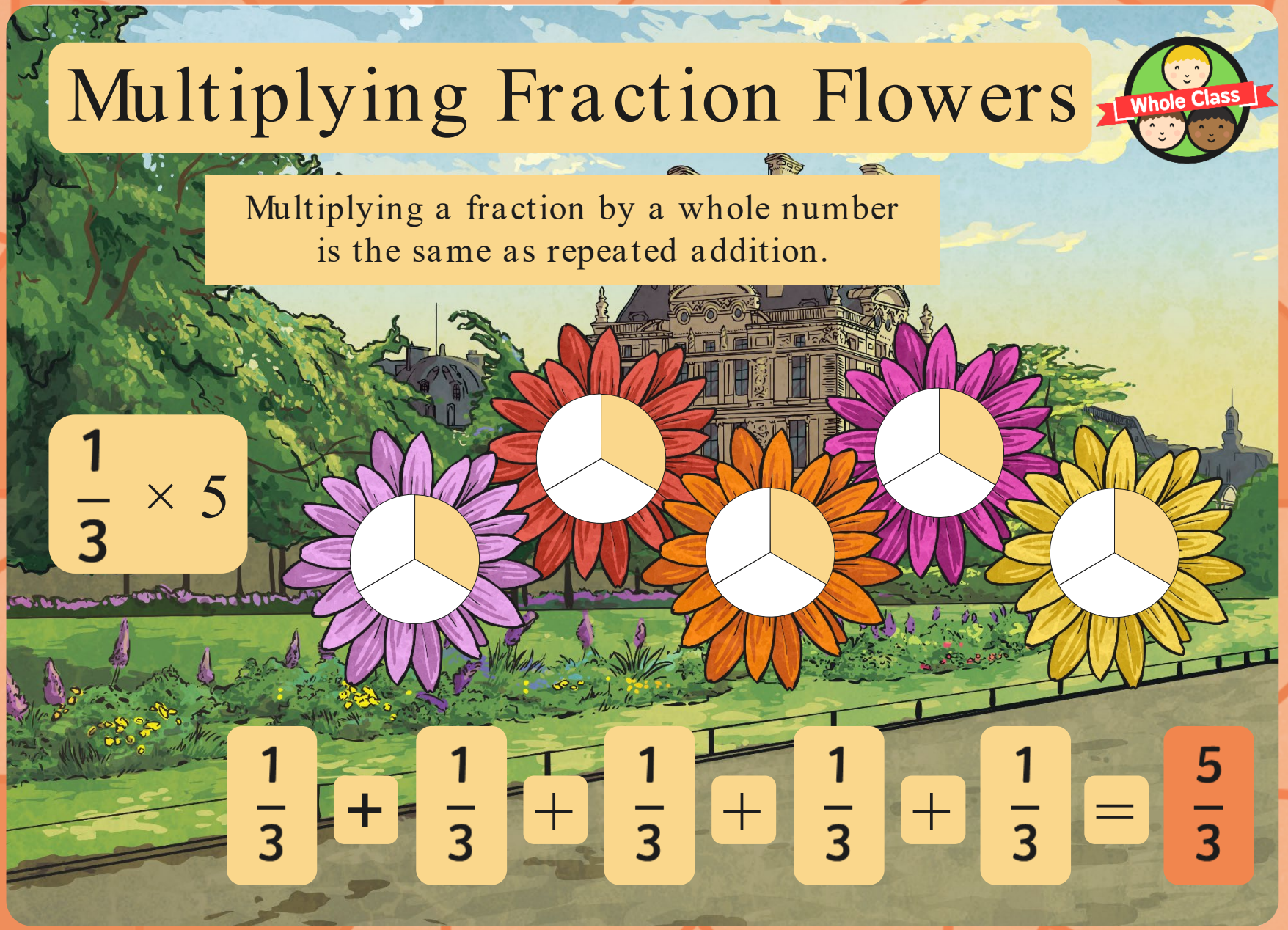


twinkl.com

Multiplying Fraction Flowers

Whole Class

Multiplying a fraction by a whole number is the same as repeated addition.



$$\frac{1}{3} \times 5$$

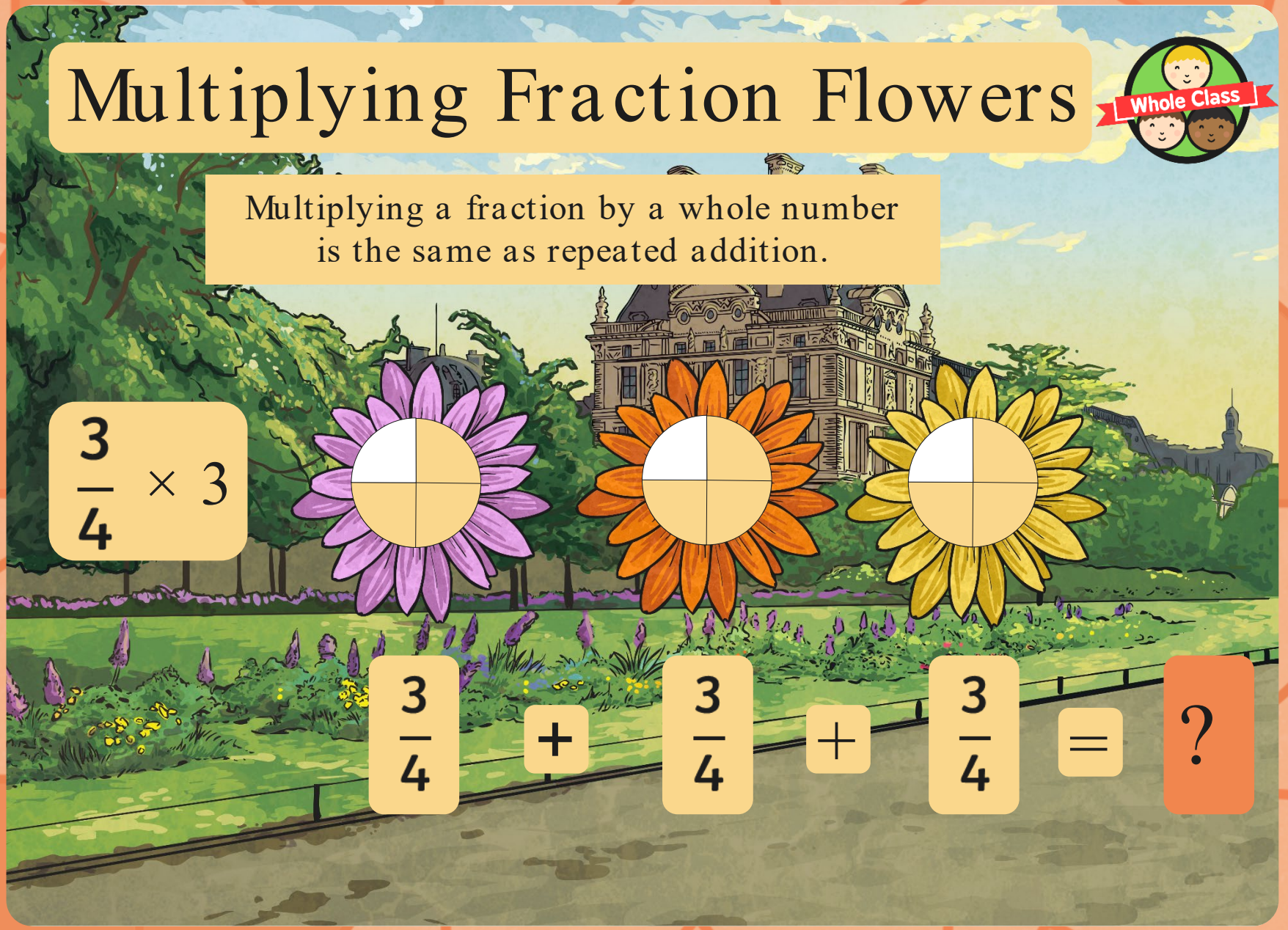
$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{5}{3}$$

twinkl.com

Multiplying Fraction Flowers

Whole Class

Multiplying a fraction by a whole number is the same as repeated addition.



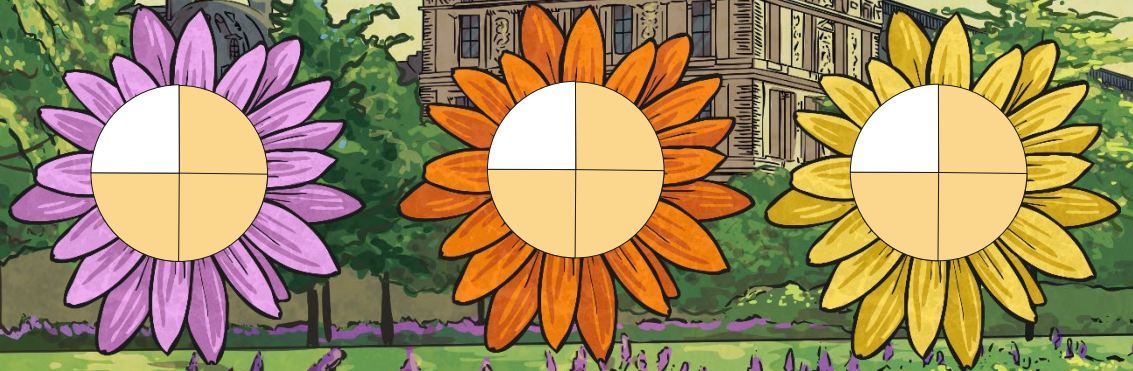
twinkl.com

Multiplying Fraction Flowers

Whole Class

Multiplying a fraction by a whole number is the same as repeated addition.

$\frac{3}{4} \times 3$



$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4}$

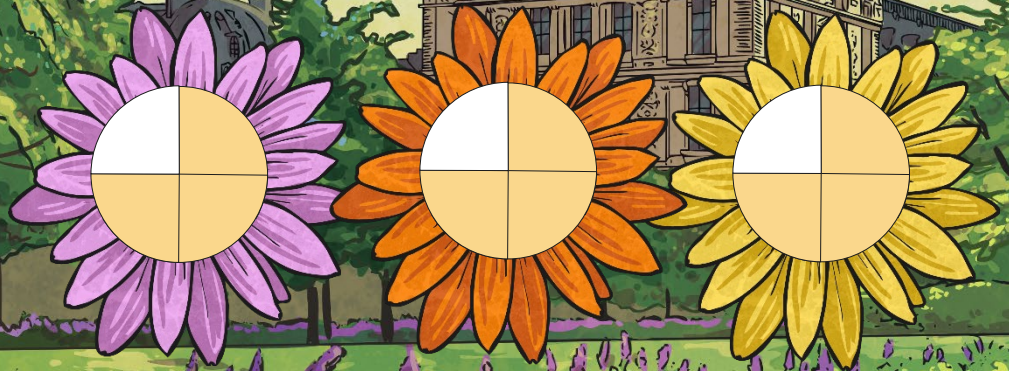
twinkl.com

Multiplying Fraction Flowers

Whole Class

The answer to this fraction multiplication is an improper fraction:

$\frac{3}{4} \times 3$



$= \frac{9}{4}$

The answer can be written as an equivalent mixed number:

$\frac{9}{4} = ?$

twinkl.com

Multiplying Fraction Flowers

Whole Class

The answer to this fraction multiplication is an improper fraction:

$\frac{3}{4} \times 3$ = $\frac{9}{4}$

The answer can be written as an equivalent mixed number:

$\frac{9}{4}$ = $2\frac{1}{4}$

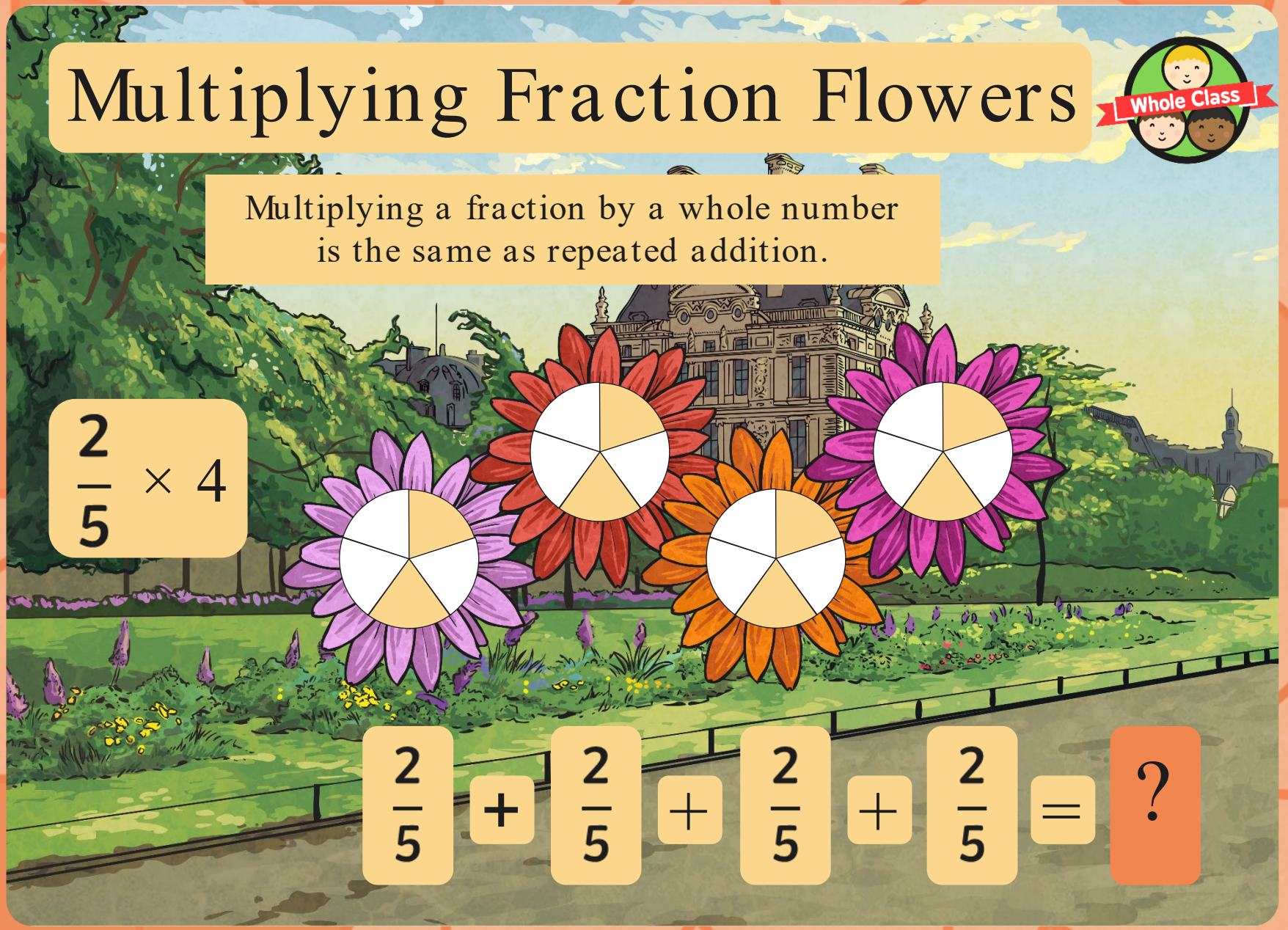
twinkl.com

Multiplying Fraction Flowers

Whole Class

Multiplying a fraction by a whole number is the same as repeated addition.

$\frac{2}{5} \times 4$



$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5} = ?$

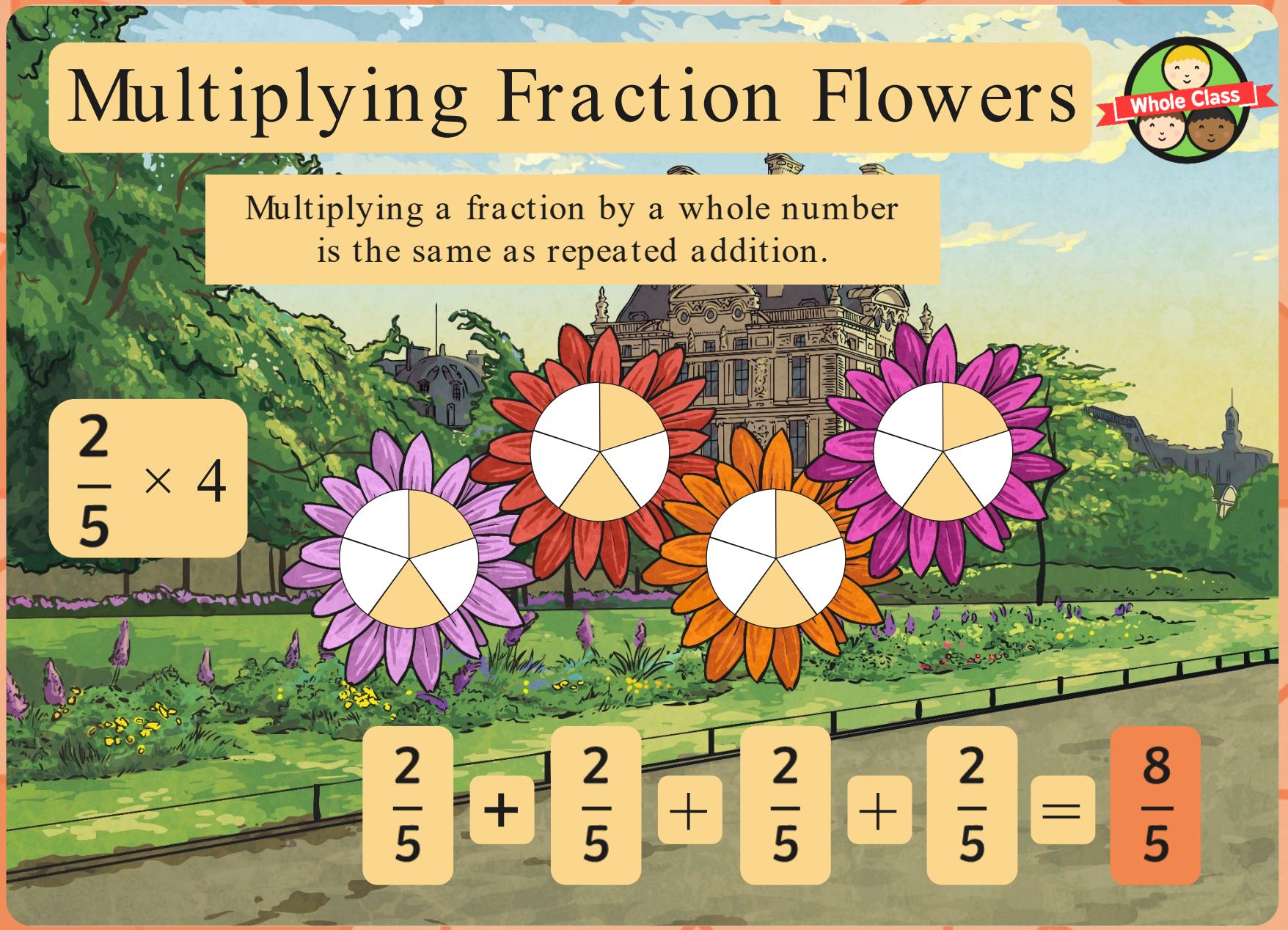
twinkl.com

Multiplying Fraction Flowers

Whole Class

Multiplying a fraction by a whole number is the same as repeated addition.

$\frac{2}{5} \times 4$



$$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5} = \frac{8}{5}$$

twinkl.com

Multiplying Fraction Flowers

Whole Class

The answer to this fraction multiplication is an improper fraction:

$\frac{2}{5} \times 4$ = $\frac{8}{5}$

The answer can be written as an equivalent mixed number:

$\frac{8}{5}$ = ?

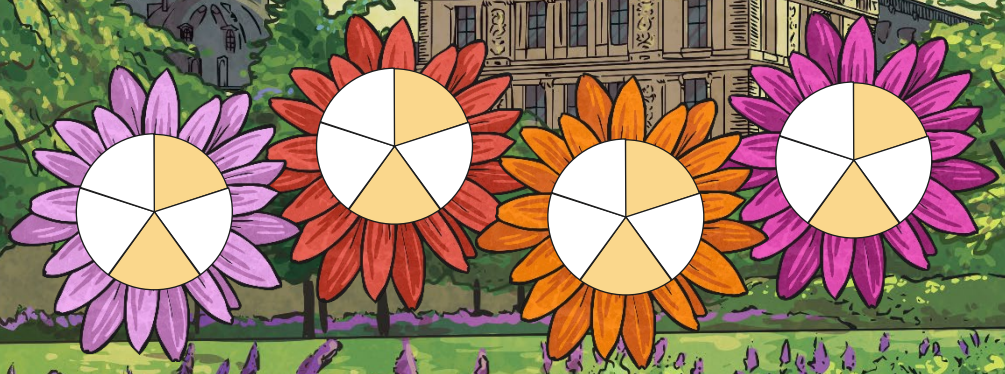
twinkl.com

Multiplying Fraction Flowers

Whole Class

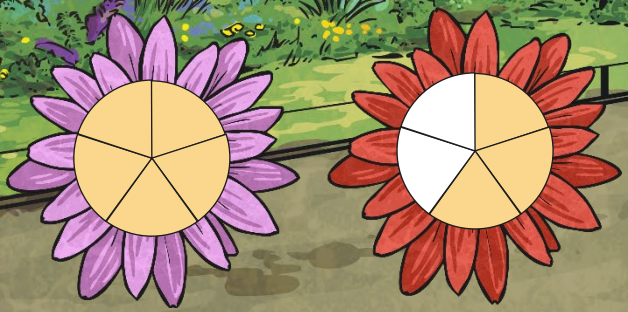
The answer to this fraction multiplication is an improper fraction:

$\frac{2}{5} \times 4$



$= \frac{8}{5}$

The answer can be written as an equivalent mixed number:



$\frac{8}{5} = 1\frac{3}{5}$

twinkl.com

Investigate It

Look at the calculations we have completed so far.

What happens to the **numerator** when you multiply a fraction by a whole number?

What happens to the **denominator** when you multiply a fraction by a whole number?

$$\frac{1}{3} \times 5 = \frac{5}{3}$$

$$\frac{3}{4} \times 3 = \frac{9}{4}$$

$$\frac{2}{5} \times 4 = \frac{8}{5}$$

twinkl.com

Investigate It

$$\frac{1}{3} \times \frac{5}{1} = \frac{5}{3}$$

We multiply the numerator by the whole number.
$1 \times 5 = 5$

We multiply the denominator by one.
$3 \times 1 = 3$

$$\frac{3}{4} \times \frac{3}{1} = \frac{9}{4}$$

We multiply the numerator by the whole number.
$3 \times 3 = 9$

We multiply the denominator by one.
$4 \times 1 = 4$

$$\frac{2}{5} \times \frac{4}{1} = \frac{8}{5}$$

We multiply the numerator by the whole number.
$2 \times 4 = 8$

We multiply the denominator by one.
$5 \times 1 = 5$

twinkl.com

Multiplying a fraction by a whole number - the steps...

$$\frac{1}{3} \times 4$$

First, put the whole number over 1 so that it is a fraction.

$$\frac{1}{3} \times \frac{4}{1}$$

Multiply the numerators together, and multiply the denominators together.

$$\frac{1}{3} \times \frac{4}{1} = \frac{4}{3}$$

Can your answer be simplified?

$$\frac{4}{3} = 1\frac{1}{3}$$

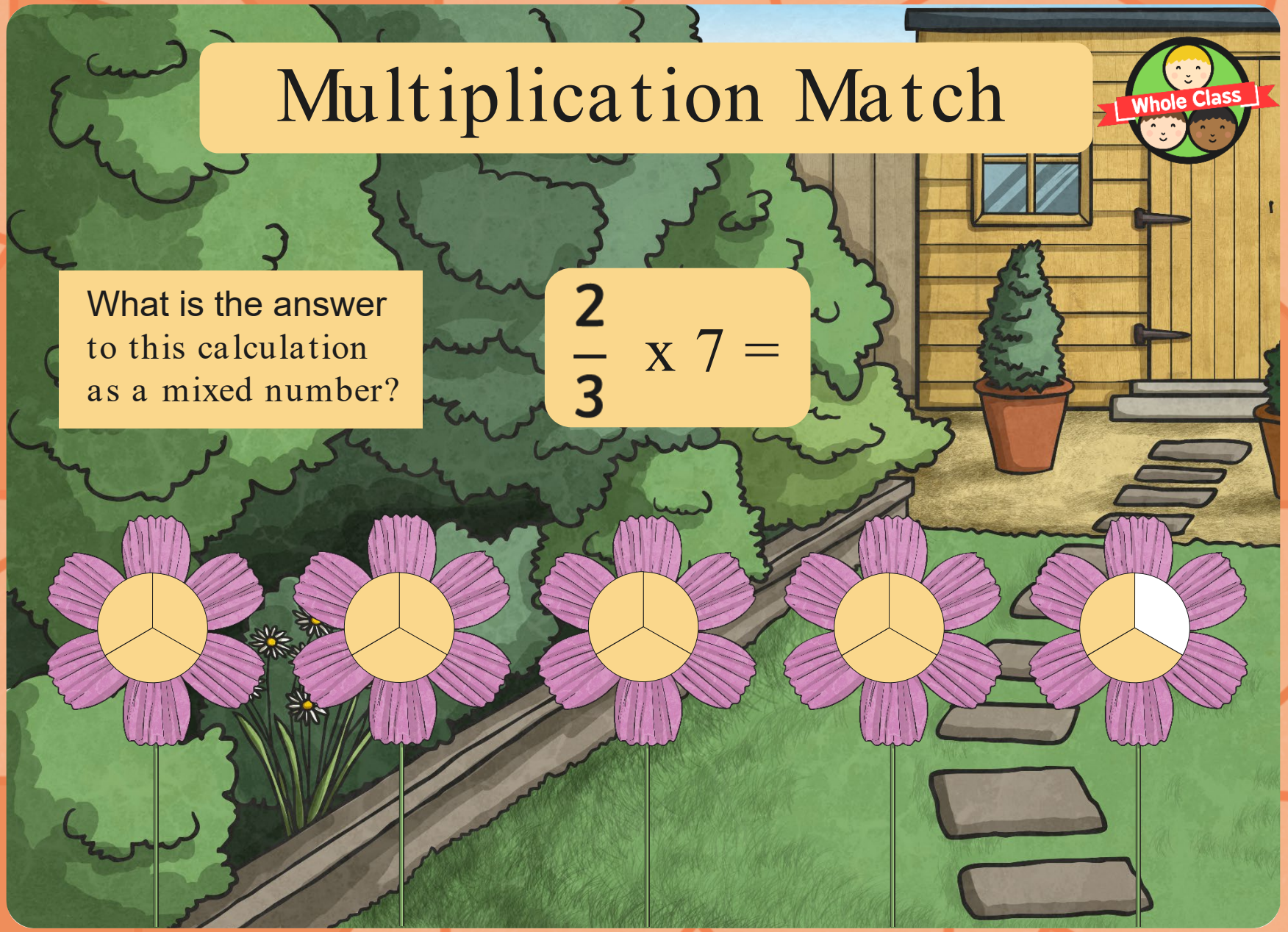
twinkl.com

Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{2}{3} \times 7 =$



twinkl.com

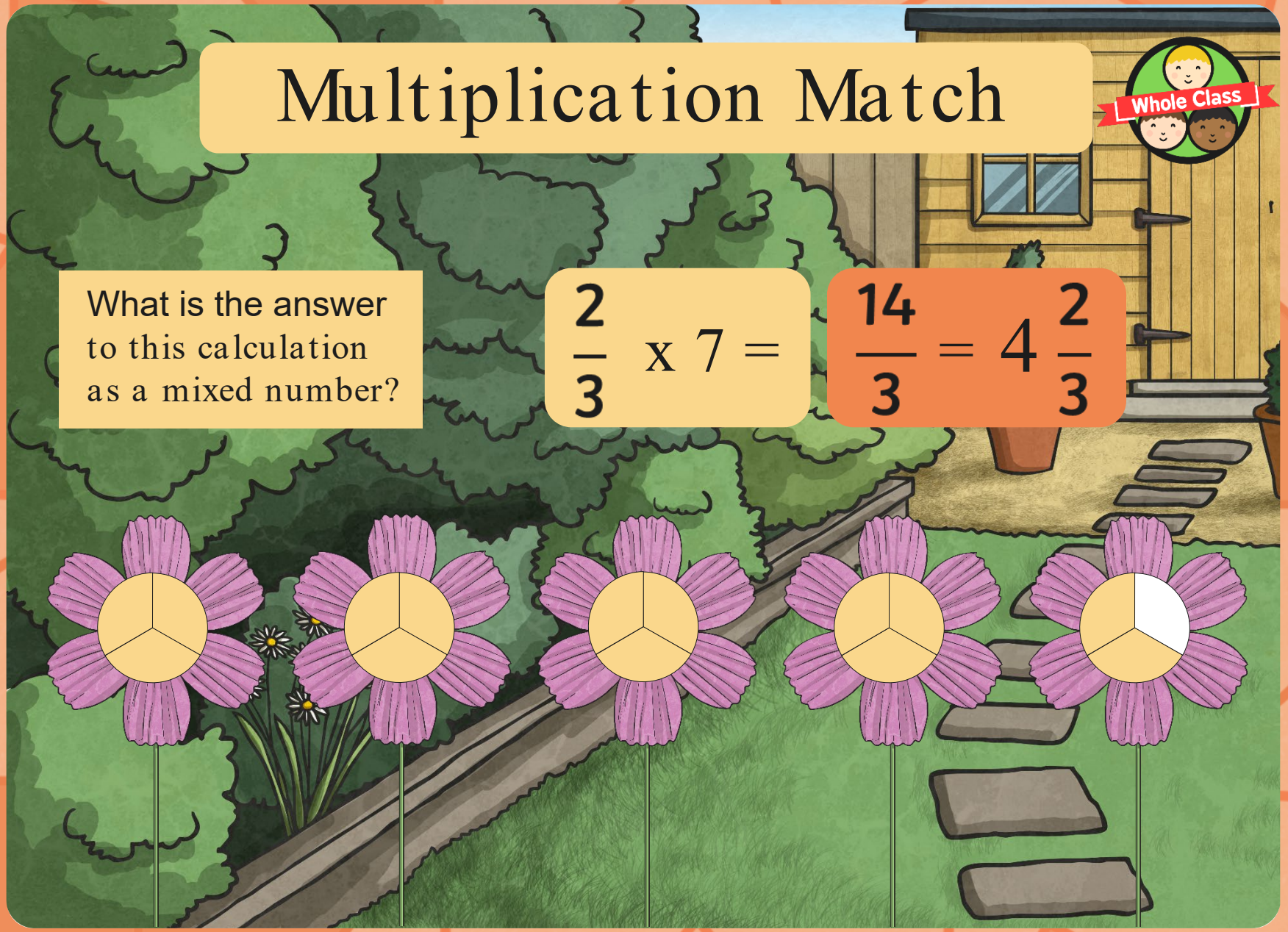
Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{2}{3} \times 7 =$

$\frac{14}{3} = 4\frac{2}{3}$



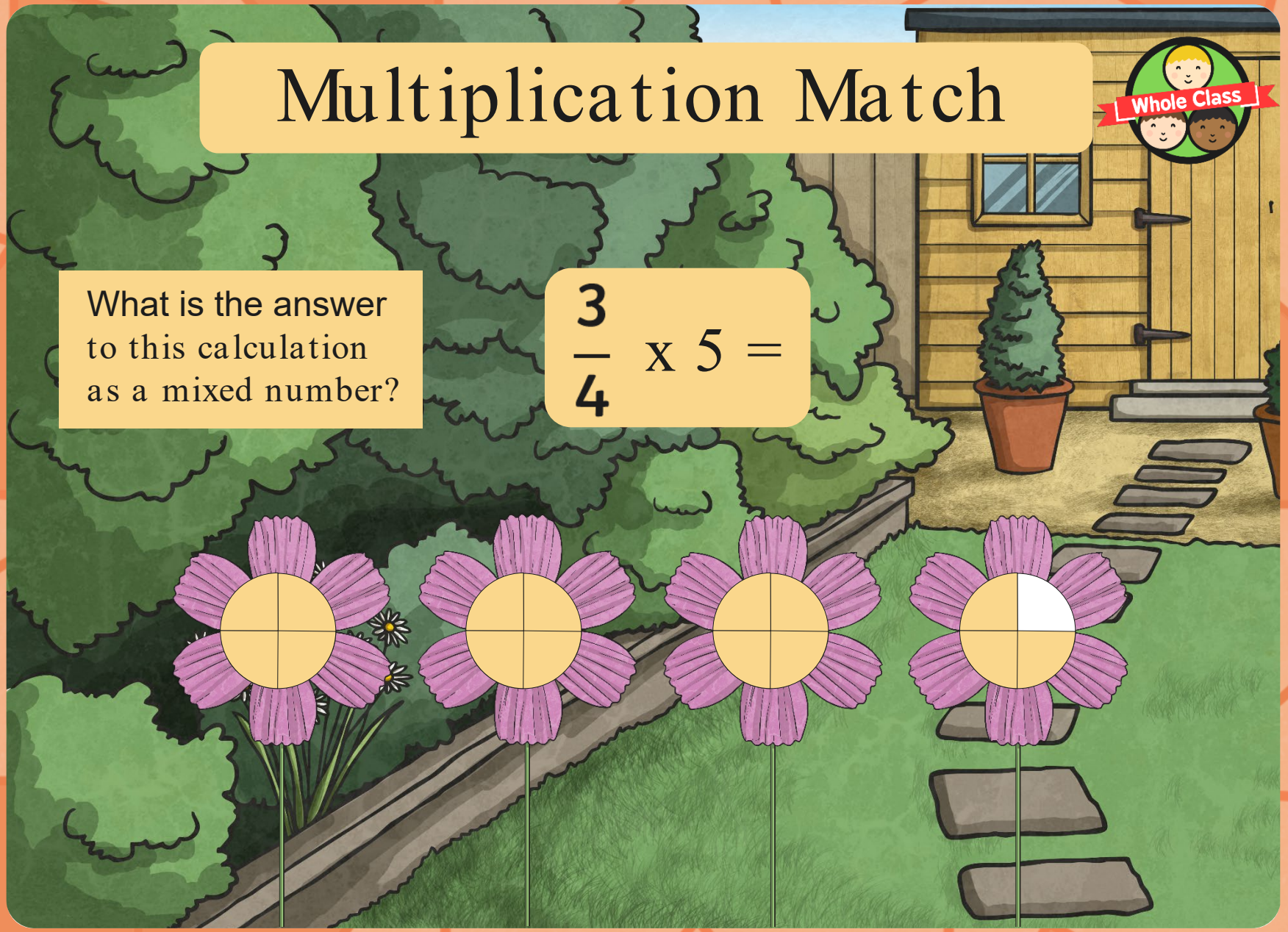
twinkl.com

Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{3}{4} \times 5 =$



twinkl.com

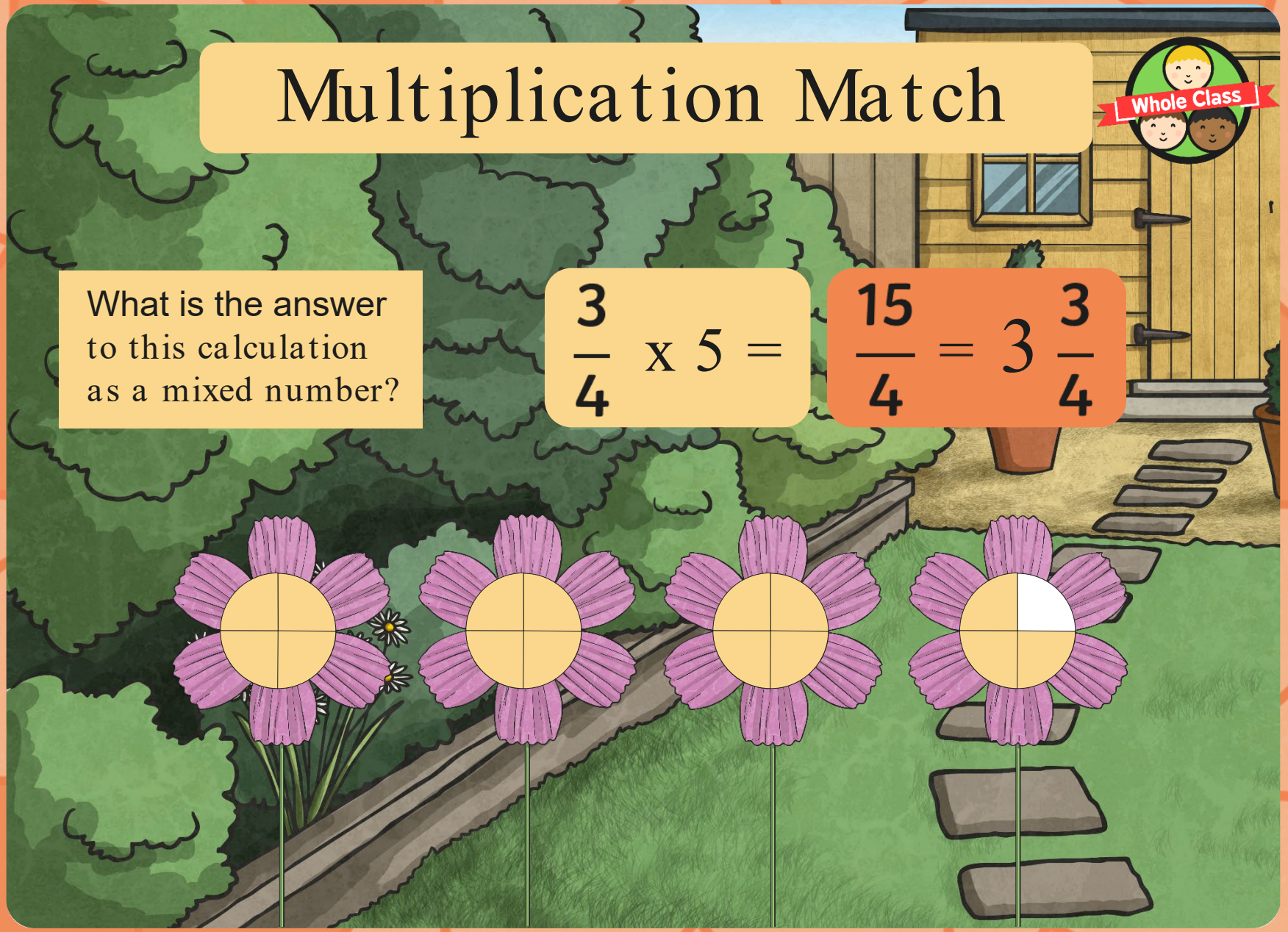
Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{3}{4} \times 5 =$

$\frac{15}{4} = 3\frac{3}{4}$



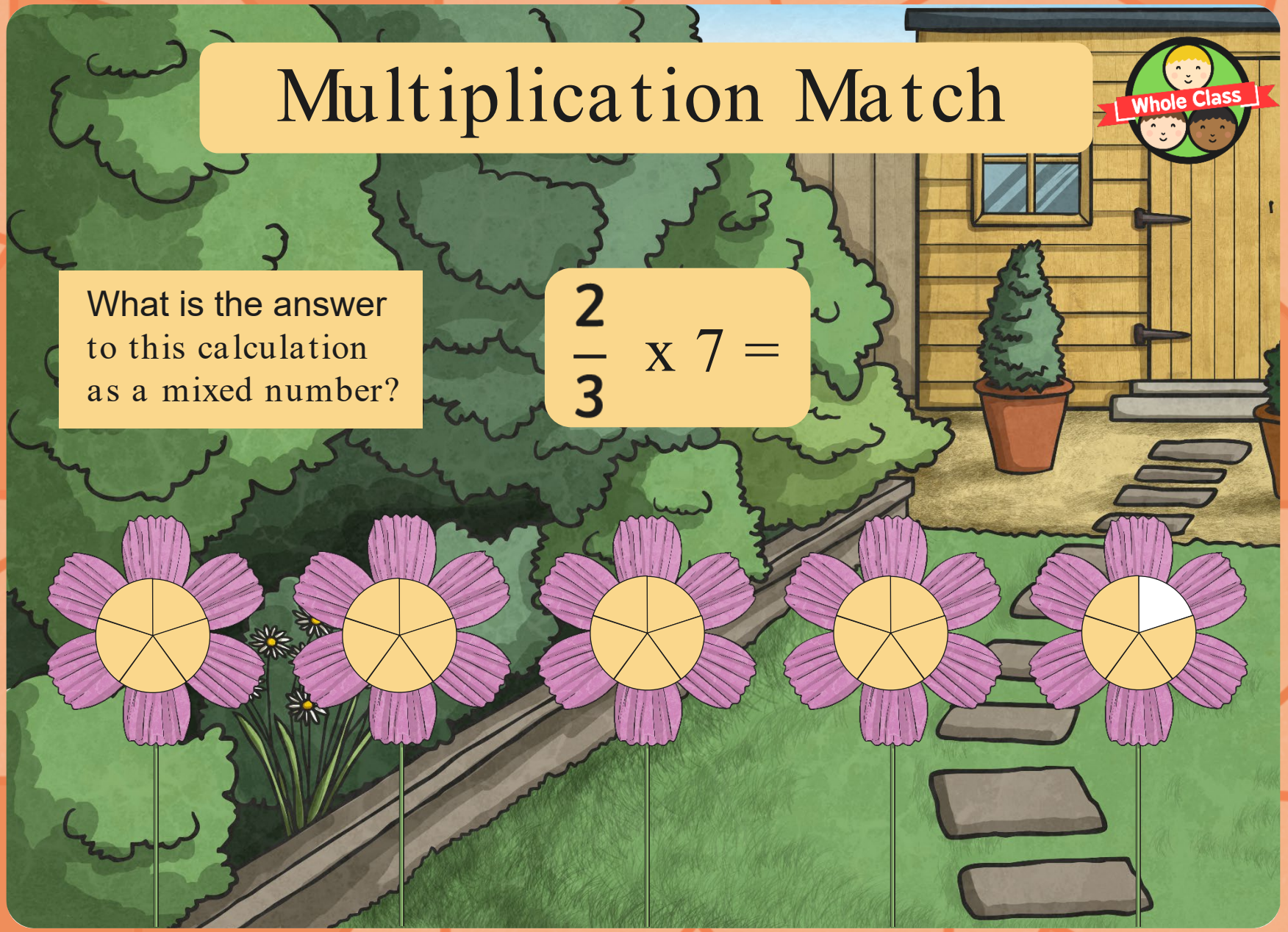
twinkl.com

Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{2}{3} \times 7 =$



twinkl.com

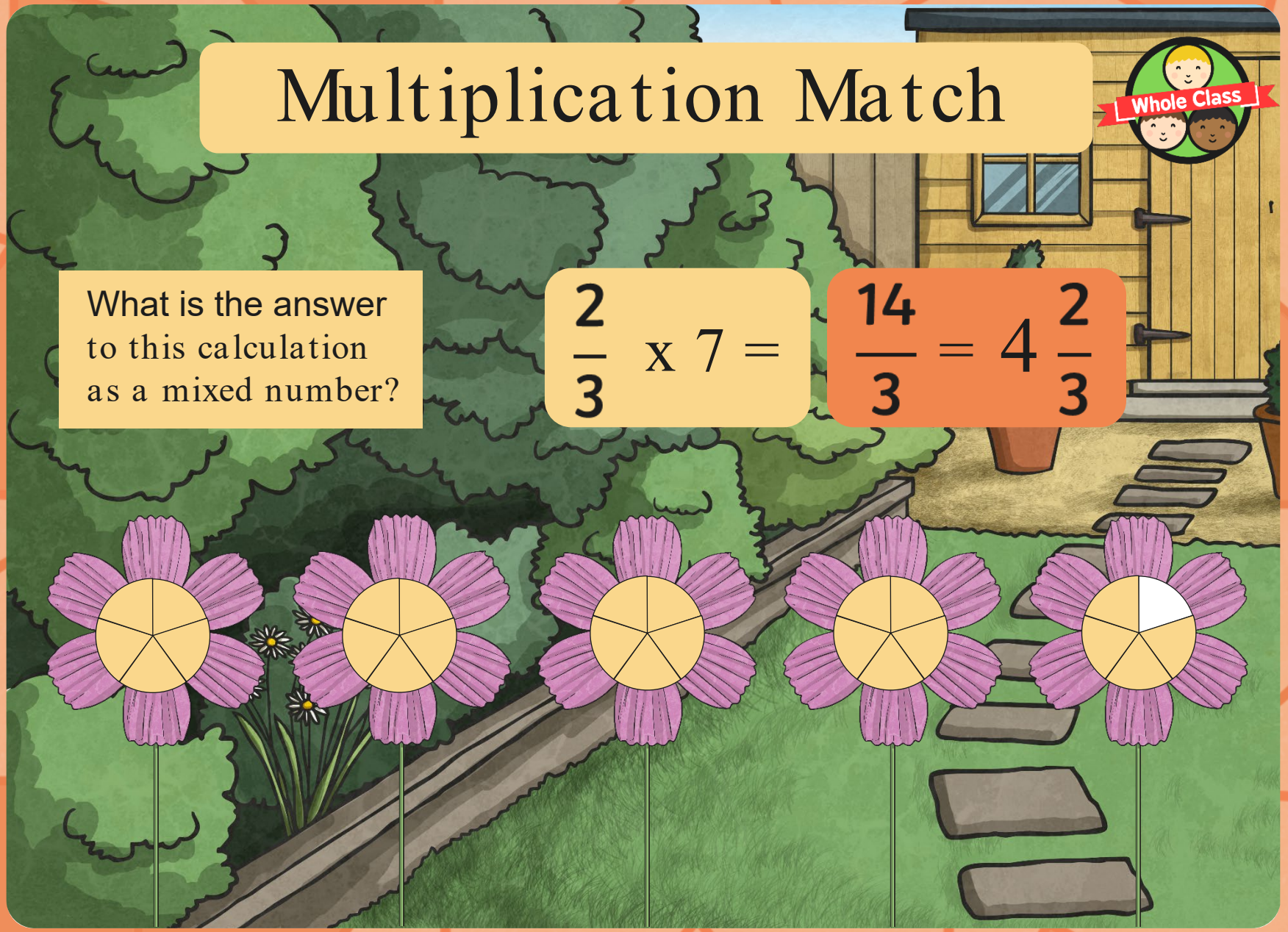
Multiplication Match

Whole Class

What is the answer to this calculation as a mixed number?

$\frac{2}{3} \times 7 =$

$\frac{14}{3} = 4\frac{2}{3}$



twinkl.com

Multiplying Mixed Numbers

To multiply a mixed number by a whole number, you can also change the mixed number into an improper fraction.

In this mixed number, every whole is made of four parts.
(2 × 4) + 1 = 9

The numerator is multiplied by the whole number.
9 × 2 = 18

This answer is an improper fraction. We need to change it to a mixed number.

$$2\frac{1}{4} \times 2 = \frac{9}{4} \times \frac{2}{1} = \frac{18}{4} = 4\frac{2}{4}$$

The denominator is multiplied by one.
4 × 1 = 4

18 ÷ 4 = 4 r 2

twinkl.com

Multiplying Mixed Numbers

Whole Class

To multiply a mixed number by a whole number, you can also change the mixed number into an improper fraction.

In this mixed number, every whole is made of four parts.
$(1 \times 7) + 4 = 11$

The numerator is multiplied by the whole number.
$11 \times 3 = 33$

This answer is an improper fraction. We need to change it to a mixed number.

$$1\frac{\ddot{u}}{¢} \times 3 = \frac{\acute{u}\acute{u}}{¢} \times \frac{3}{1} = \frac{\hat{u}\hat{u}}{¢} = 4\frac{\dagger}{¢}$$

The denominator is multiplied by one.
$7 \times 1 = 7$

$33 \div 7 = 4$ r 5

twinkl.com

You try…

Try these…

$$1\frac{2}{5} \times 2 =$$

$$2\frac{1}{3} \times 4 =$$

twinkl.com

You try…

Try these…

$$1\frac{2}{5} \times 2 = \frac{7}{5} \times \frac{2}{1} = \frac{14}{5} = 2\frac{4}{5}$$

$$2\frac{1}{3} \times 4 = \frac{7}{3} \times \frac{4}{1} = \frac{28}{3} = 9\frac{1}{3}$$

twinkl.com

Word Up

Six friends took part in a sponsored swim.

They each swam $1\frac{\dagger}{£}$ km.

How many kilometres did they swim in total?

$1\frac{\dagger}{£} \times 6$ = $\frac{úû}{£} \times 6$ = $\frac{¢£}{£}$ =

twinkl.com

Word Up

Whole Class

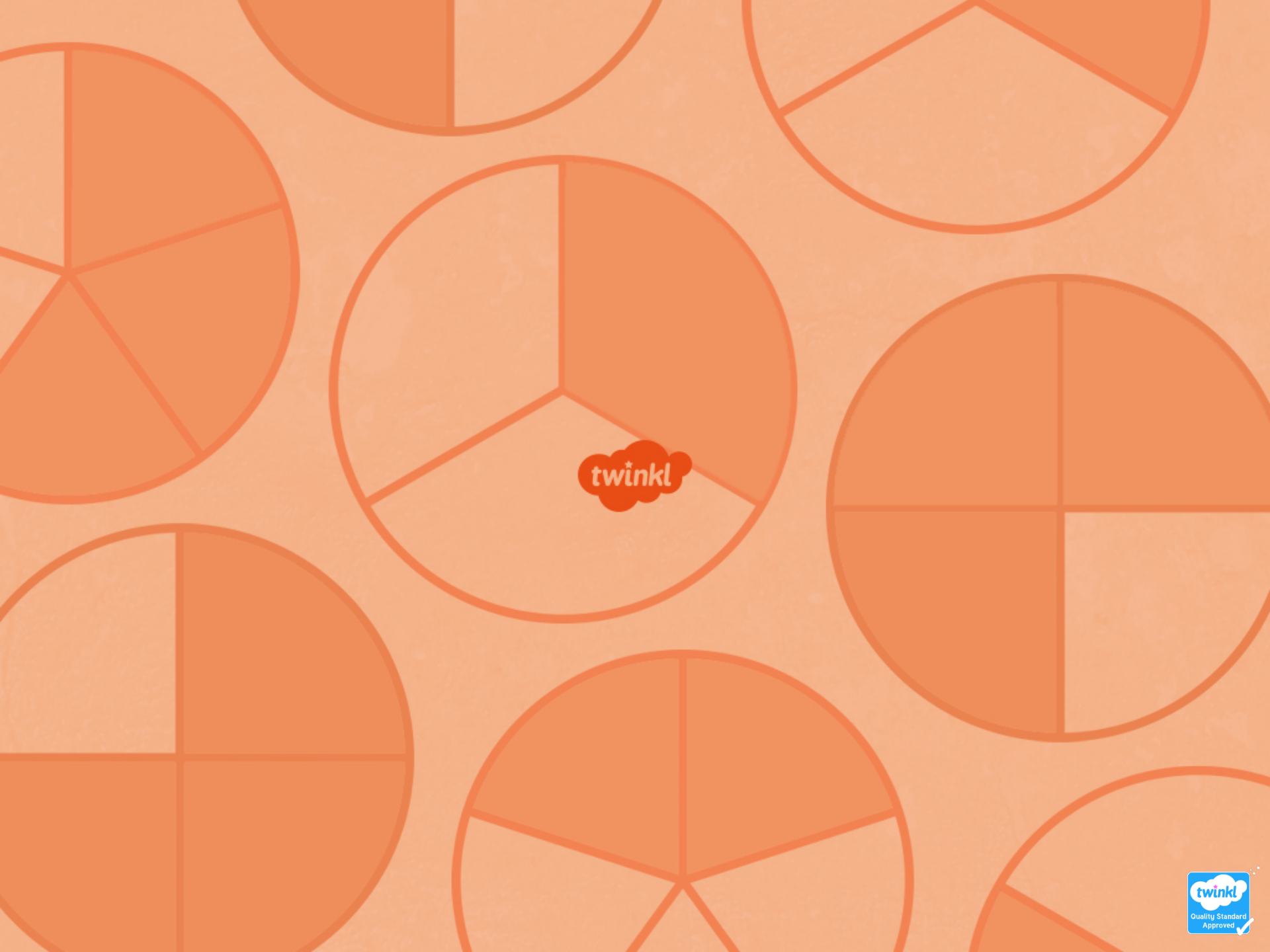
Six friends took part in a sponsored swim.

They each swam $1\frac{\dagger}{£}$ km.

How many kilometres did they swim in total?

$$1\frac{\dagger}{£} \times 6 = \frac{úû}{£} \times 6 = \frac{¢£}{£} = 9\frac{°}{£}\text{ km}$$

twinkl.com


twinkl
twinkl
Quality Standard
Approved