

Hello Year 3s.

For maths today, read this page and look at the examples on the following page. Then there are 2 worksheets to complete (the first one is for practise and the second one is more challenging). See how you get on - the answers are at the end.

Learn

What is a unit fraction?

A fraction tells us how many parts of a whole we have. When we find a fraction of an amount, we are working out how much that 'part' is worth within the whole.

A **unit fraction** is a fraction where the numerator is **1**.

$$\frac{1}{4}$$

numerator

denominator

Fractions in everyday life

We can see fractions of amounts all around us in everyday life:

- Shops have sales that often say, " $\frac{1}{2}$ price off!" or " $\frac{1}{3}$ free!"
- Baking also makes us rely on finding fractions of amounts, for example, "add half a teaspoon of salt" or "use a $\frac{1}{3}$ of an onion".



Now, let's take a look at some examples.

Example 1

Find $\frac{1}{3}$ of 9 counters.

Step 1: Look at the denominator (the bottom number of the fraction). This tells you how many groups you need to separate the counters into equally. In this example, it is **3**.

Step 2: Now separate the counters into **3** groups. We can use a diagram like the one below to help us:



Step 3: Look at the numerator (the top number). That tells you how many groups to look at. Since $\frac{1}{3}$ is a unit fraction, you only need to look at how many counters are in 1 group.

Step 4: How many counters are in 1 group? The answer is **3**.

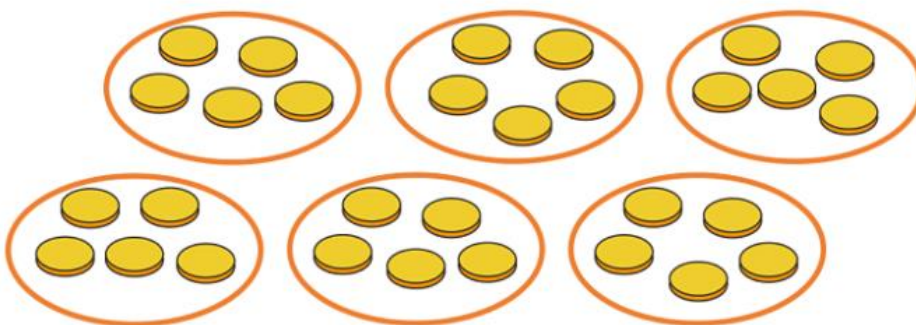
So $\frac{1}{3}$ of 9 is **3**.

Example 2

What is $\frac{1}{6}$ of 30?

Step 1: Look at the denominator to see how many equal parts you need to separate **30** into. In this case, it is **6**.

Step 2: Now separate **30** into **6** groups. We can represent **30** by using circles to help us.



Step 3: Look at the numerator. $\frac{1}{6}$ is a unit fraction, so you look at how many counters are in one group.

Step 4: How many counters are in one group? The answer is **5**.

So $\frac{1}{6}$ of 30 is **5**.



- 1) Find and circle $\frac{1}{4}$ of the footballs.



$\frac{1}{4}$ of the footballs =

- 2) A bar model can be used to find $\frac{1}{4}$ of 8.



a) $\frac{1}{4}$ of 12 =

b) $\frac{1}{4}$ of 16 =

c) $\frac{1}{3}$ of 15 =

- 3) This is $\frac{1}{4}$ of a punnet of strawberries.



How many strawberries are in a whole punnet?

A whole punnet of strawberries =

- 4) This is $\frac{1}{3}$ of a large box of eggs.



How many eggs are in a whole box?

A whole box of eggs =

- 5) Use a bar model and place value counters to find $\frac{1}{3}$ of 69.

