

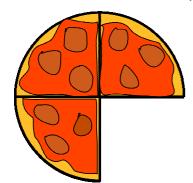
What is a Fraction?

When one WHOLE is divided into equal parts, we say that the WHOLE has been divided into **FRACTIONS**.

How do we write Fractions?

Look at the following example of a pizza:

This is a **WHOLE** pizza that is divided into **4 EQUAL** slices. If **one slice** is taken away, there will be **3 slices** left.



The fraction of the number of slices left is:

the pizza (or WHOLE) was cut into 4 slices (parts)

3 slices are left

What is the Numerator and **Denominator?**

Numerator

Denominator

Numerator is the **Number** of parts of the whole, asked NOW.

Denominator Determines the number **Down** at the bottom.

Always first determine the **Denominator**. That is the number of equal **slices/parts/** sections that any whole has been divided into and will be the number under the line of the fraction.

The **Numerator** is the **part of the whole that is questioned**, e.g. How many parts are shaded? How many slices have been eaten? How many blocks have been coloured? How many pieces are left?

Can a WHOLE be written as a Fraction?

YES! Look at the example of the pizza.

The pizza was cut into **4 slices**. Let's say that none of the slices has been eaten. The answer will be;

4 slices are left over NOW The WHOLE has been divided into 4 slices

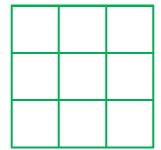


| Can you determine the Denomina | tor in the following examples | ? |
|--------------------------------|-------------------------------|---|
|--------------------------------|-------------------------------|---|

1.



2.



3.

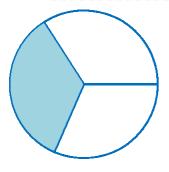




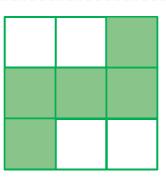
Remember: Determine the number of parts the WHOLE has been divided into!

Can you determine the Numerator in the following examples? (Look at the shaded parts)

1.



2.



3.





Remember: The Numerator is the number of parts you are asked about NOW!

Now write down the full Fractions of the shaded parts as a part of the whole for each picture:

1.



2.



3.







Dividing a WHOLE into smaller FRACTIONS

What happens if an apple is divided in two exactly equal pieces?





One WHOLE divided into two, gives you two $\frac{1}{2}$'s (halves)

If the both halves are again divided into two exactly equal pieces?













One **HALF** divided into two, gives you two $\frac{1}{4}$'s (quarters)

Can you guess what Fractions you will get if the Quarters are divided into 2 exact pieces?

Can you see the pattern?

1 divided into two = $\frac{1}{2}$

$$\frac{1}{2} \text{ divided into two} = \frac{1}{4}$$

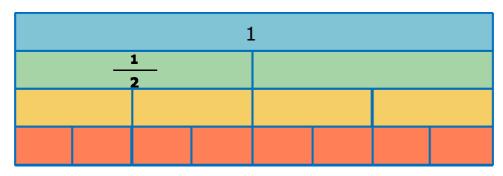
$$\frac{1}{4}$$
 divided into two =
$$\frac{1}{8}$$





Fraction Walls

Complete the following Fraction wall:



Now draw your own Fraction wall, but this time divide the whole into thirds ($\frac{1}{3}$)

Relationship between Fractions and Division

From the examples above, it can be seen that:

- is the same as 1 whole divided into 2 equal parts
- is the same as 1 whole divided into 3 equal parts
- is the same as 1 whole divided into 4 equal parts

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| ts | |

Divide each of the blocks above, into the correct parts to illustrate the fraction.