VOCABULARY

WHOLE

NUMERATOR

DENOMINATOR

EQUIVILANT FRACTIONS

REDUCING FRACTIONS

COMMON FACTOR

GREATEST COMMON FACTOR

LOWEST COMMON DENOMINATOR

What are fractions?

Fractions are all around us! A fraction represents a **part** of a whole. Every time we have a slice of pizza or a piece of cake we are using fractions! Depending on how many slices our pizza is made of our fractions change.

The whole pizza represents a whole number: we have 1 pizza.

This pizza is divided into 6 **equal** pieces, so we could say we have a whole pizza, or six sixths of the pizza.

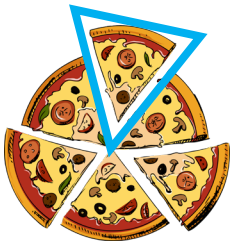
$\frac{6}{6}$

- 6 → The top number shows how many slices we have
- 6 → The bottom number shows how many slices the pizza was cut into

If you decided to eat 1 slice of pizza, you would eat one-sixth of the pizza. How could you write that into a fraction?

$\frac{1}{6}$

- 1 → You are eating 1 slice of pizza
- 6 → Number of slices the pizza was cut into



How many slices of pizza were not eaten? Five-sixths of the pizza are not eaten:

$\frac{5}{6}$

- 5 → Number of slices not eaten
- 6 → Number of slices the pizza was cut into

The top number in a fraction is called the numerator. The **NUMERATOR** represents how many parts we have. The bottom number in a fraction is called the denominator. The **DENOMINATOR** is the number of **equal** parts the whole is divided into.

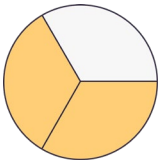
$$\frac{4}{5}$$

4 — NUMERATOR

5 — DENOMINATOR

Example 1:

Express the yellow pieces as a fraction:



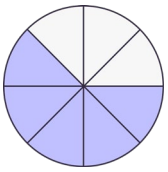
$$\frac{2}{3}$$

First, we will count the number of pieces the whole has been divided into to find our denominator. We can see that the whole has been divided into 3 **equal** parts, therefore 3 is our denominator. There are 2 yellow pieces, therefore 2 is our numerator.

The yellow pieces represent two-thirds of the whole.

Example 2:

Express the purple pieces as a fraction:



$$\frac{5}{8}$$

First, we will count the number of pieces the whole has been divided into to find our denominator. Our denominator is 8. Next, we count the number of purple pieces to find our numerator; there are 5 pieces.

The purple pieces represent five-eighths of the whole.