

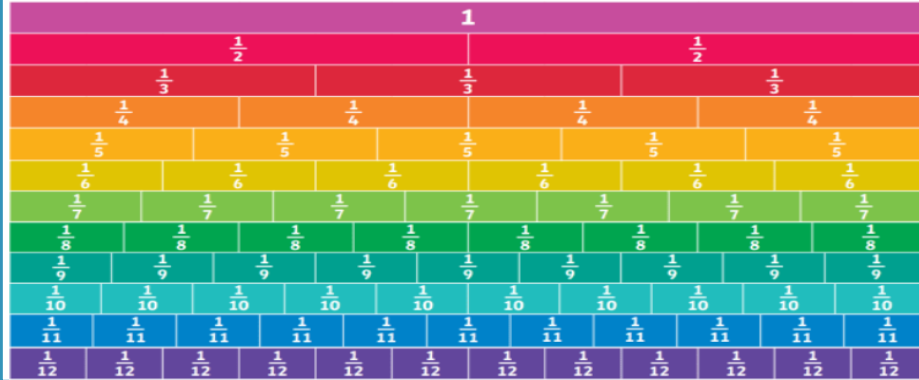


YEAR 5 – Fractions Knowledge Organiser



Equivalent Fractions; Improper Fractions to Mixed Numbers; Mixed Numbers to Improper Fractions; Compare and Order Fractions; Add Fractions with Unlike Denominators, Subtract Fractions with Unlike Denominators.

Fraction Wall



Fractions

Fractions show part of a whole.

circle as 1 whole



1

1 out of 2 parts



$\frac{1}{2}$

Mixed Numbers

A mixed number is a whole number and a fraction combined.



$1\frac{3}{4}$

(one and three-quarters)

Improper Fractions

An improper fraction has a numerator (top number) larger than the



$\frac{7}{4}$

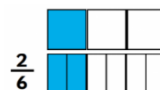
(seven-fourths or seven-quarters)

Common Denominator

For some fraction problems you'll need to find a common denominator.

$$\frac{1}{3} + \frac{3}{6} = \frac{\boxed{}}{\boxed{}}$$

In this example the common denominator can be 6 because 6 is in both the 3x table and the 6x table. So, we can convert $\frac{1}{3}$ to $\frac{2}{6}$ because they have an equal value as shown by the picture. The $\frac{3}{6}$ can stay the same.



After this, we can just add our $\frac{2}{6}$ to $\frac{3}{6}$ to give us $\frac{5}{6}$.

Fractions are used in everyday life.

For example when sharing food, baking or telling the time.

Chocolate Chip Cookies

- $2\frac{1}{2}$ cups flour
- 1 tsp. baking soda
- $\frac{3}{4}$ teaspoon salt
- 1 cup butter
- $\frac{3}{4}$ cup sugar
- 1 tsp. vanilla
- 2 eggs
- $\frac{3}{4}$ pound of Chocolate Chips

Makes 60 cookies.



four quarters

$\frac{4}{4}$

Key Vocabulary

Numerator – The top number in a fraction it shows how many parts we have.

Denominator – The bottom number in a fraction. It shows the equal parts an item is split into.

Mixed Number – A mixed number is a whole number and a proper fraction combined.

Improper Fraction – A fraction where the top number (numerator) is bigger than the bottom number (denominator).