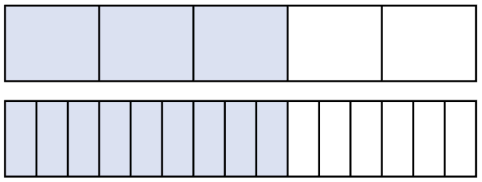
# Year 5 - Fractions A

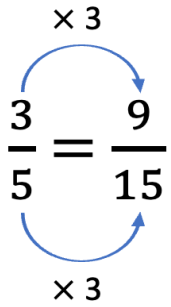
## Key Vocabulary

| | |
|---|---|
| Fraction | A part of a whole. |
| Numerator | The top number in the fraction which shows how many parts you have. |
| Denominator | The bottom number in the fraction which shows how many equal parts the item is divided into. |
| Proper Fraction | A proper fraction is a fraction where the numerator is less than the denominator. |
| Improper Fraction | A fraction where the numerator is greater than the denominator. |
| Mixed Number | A number that is made up of a whole number and a fraction. |

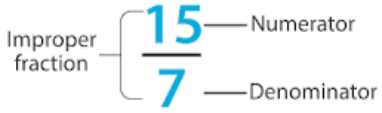
## Equivalent Fractions

An equivalent fraction are fractions that have the same value.






## Converting Improper Fractions to Mixed Numbers




Step 1: Divide the numerator with the denominator

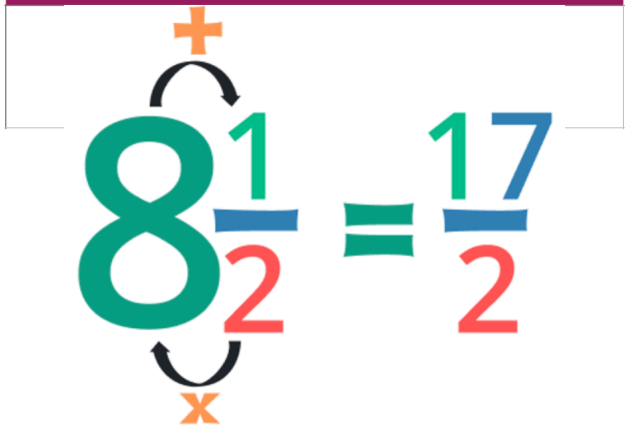
$15 \div 7 = 2 \text{ R } 1$

Step : 2 Assemble the mixed fraction

$\frac{15}{7} = 2\frac{1}{7}$

$\frac{15}{7} = 2\frac{1}{7}$ ← Mixed number

## Converting Mixed Numbers to Improper Fractions




Multiply the whole number by the denominator and add on the numerator. The answer forms the new numerator and the denominator stays the same.

## Converting Mixed Numbers to Improper Fractions

$\frac{1}{7} + \frac{4}{7} = \frac{5}{7}$

$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

Add or subtract the numerators. Keep the denominators the same.

## Adding and Subtracting Fractions with different denominators

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

**First** make the bottom numbers (the denominators) the same

Multiply top and bottom of $^1/_3$ by **4**:

$\frac{1 \times \mathbf{4}}{3 \times \mathbf{4}} + \frac{1}{4} = \frac{?}{?}$

And multiply top and bottom of $^1/_4$ by **3**:

$\frac{1 \times 4}{3 \times 4} + \frac{1 \times \mathbf{3}}{4 \times \mathbf{3}} = \frac{?}{?}$

**Now** do the calculations:

$\frac{4}{12} + \frac{3}{12} = \frac{4+3}{12} = \frac{7}{12}$