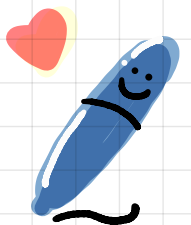


1.2) Fractions



Numbers: Fractions.

TOP Maths IGCSE

Cancelling down (Reduce or Simplify)



Divide top and bottom by the same number, till they won't go further.

Example: $\frac{30}{72}$

$$\frac{15}{45}$$

Numbers: Fractions.

TOP Maths IGCSE

Mixed numbers

↳ Integer part + Fraction part → $4\frac{3}{5}$



Calculator

Improper fractions

↳ The top number is larger than the bottom number.

$$\frac{4}{3} \text{ or } \frac{25}{7} \text{ or } \frac{-13}{4}$$

Numbers: Fractions.

TOP Maths IGCSE

Convert between Mixed numbers and Improper fractions.

Example: $4\frac{3}{5} \rightarrow$ Improper fraction

Example: $\frac{37}{4} \rightarrow$ Mixed number

Calculator

Numbers: Fractions.

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Multiplying

↳ Cancel down top and bottom (If you can)

↳ Multiply numbers top to top and bottom to bottom.

Example: $\frac{8}{15} \times \frac{5}{12}$

Numbers: Fractions.

TOP Maths IGCSE

Dividing



The 1st fraction stay the same.



Change \div to \times



The 2nd upside down



Multiplying

Example: $3\frac{1}{2} \div 2\frac{1}{3}$

Common denominators



LCM

Example: $\frac{3}{8}$ and $\frac{7}{12}$

Numbers: Fractions.

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Adding and Subtracting

↳ Common denominators.

↳ Combine the top line.

Example: $3\frac{2}{5} - 1\frac{1}{2}$

Numbers: Fractions.

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Example: $1\frac{2}{3} + \frac{7}{15}$

Fractions of something

Example: What is $\frac{7}{20}$ of 360?

Numbers: Fractions.

TOP Maths IGCSE

Example: David has 450 muffins. $\frac{2}{5}$ of muffins are chocolate. $\frac{4}{9}$ are lemon and the rest are vanilla. How many vanilla muffins.

Expressing as a Fraction

Example : Write 180 as a fraction of 80.

Example : Write 70p as a fraction of £350?

Exercise

