

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiples: a 'times table' for an integer (with infinite multiples)
• Multiples of 12 are 12, 24, 36, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Units

Highest Common Factor (HCF)
• Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3
Lowest Common Multiple (LCM)
• Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Index notation

Write a number as a product of its prime factors, and follow for repeated factors.
• $120 = 2^3 \times 3 \times 5$

Indices and laws

Special indices for any value a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{-2} = \frac{1}{a^2}$

Ordering with fractions

Adding or subtracting fractions, use a common denominator.
• $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
Multiplying fractions: multiply numerators and denominators.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Working fractions 'top' the second fraction, then multiply...

Dividing fractions 'top' the second fraction, then multiply...

Prime factorisation

Factorise a number as a product of its prime factors.
• $12 = 2 \times 2 \times 3$
The prime factors of a number divide it exactly. Multiply where possible.
• $12 \div 2 = 6$
• $6 \div 2 = 3$

Least common multiple

Least common multiple (LCM) of 2, 3, 4, 6, 12 is 12.

Least common denominator

Least common denominator (LCD) of $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$ is 12.

Least common factor

Least common factor (LCF) of 2, 3, 4, 6, 12 is 2.

Least common multiple

Least common multiple (LCM) of 2, 3, 4, 6, 12 is 12.

Least common denominator

Least common denominator (LCD) of $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$ is 12.

Least common factor

Least common factor (LCF) of 2, 3, 4, 6, 12 is 2.

Algebra

Look for the biggest square number factor of the expression.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.
• $1000 = 1 \times 10^3$
• $0.001 = 1 \times 10^{-3}$

Standard form

1 square = 10000 square metres
1 kilometre = 1000 metres
1 metre = 100 centimetres
1 centimetre = 10 millimetres
1 square kilometre = 100 square metres
1 square metre = 100 square centimetres
1 square centimetre = 100 square millimetres

Standard form

1 day = 24 hours
1 hour = 60 minutes
1 minute = 60 seconds
1 week = 7 days
1 year = 12 months
1 month = 30 days
1 century = 100 years

Standard form

Transfer the number, then add or 'borrow' digits to round up or down. Round up or down to the nearest power of 10.
• 123456789 rounded to 1000000 is 123000000
• 123456789 rounded to 10000000 is 120000000
• 123456789 rounded to 1000000000 is 1000000000

Standard form

Find the range of numbers that will round to a given value.
• 1000 rounded to 1000 is 1000
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Geometry & measures

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Here you find the area of the rectangle. The perimeter is the distance round the outside of the rectangle. The area is the space inside the rectangle. The perimeter is the distance round the outside of the rectangle. The area is the space inside the rectangle.

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