

### 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 roots

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

### 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...

### Problems involving

Problems involving 'change directly or inversely' (usually, where possible).  
•  $a \propto b \Rightarrow \frac{a}{b} = \frac{1}{k}$   
Leave the most frequently used ones

### Area of a circle

For any value  $a$   
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