

### 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 numbers: 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...

•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Problems involving

Problems involving  $a$  - denominator  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$   
The given values change directly or inversely, depending where possible.  
•  $a \propto b \Rightarrow \frac{a}{b} = \frac{1}{2}$

### Least of the most frequently used ones

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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### Units

Look for the biggest square number factor of the number.  
•  $100 = 2^2 \times 5^2 = 4 \times 25$

### Standard form

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer.

### Scientific notation

1 atom = 0.000 000 1 kilograms  
1 kilogram = 1 000 grams  
1 kilometre = 1 000 metres  
1 metre = 100 centimetres  
= 1 000 millimetres  
1 centimetre = 10 millimetres

### Time

1 day = 24 hours  
1 hour = 60 minutes = 3 600 seconds  
1 minute = 60 seconds

### Area

Calculate the number, then use a 'square digit' to round up or down. Round (up) means use the decimal point.  
• 102.1021 = 102.1021  
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### Geometry & measures



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# Pixl Maths Paper November 2014

**M Carnoy**



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