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IGCSE Maths - Foundation Tier. LEARN THESE FACTS! You will not be given them in the exam.

Types of number:
odd - ends in 1, 3, 5, 7, 9
even - ends in 0, 2, 4, 6, 8 (is divisible by 2)
factor - divides exactly into a number
 eg 5 is a factor of 10
multiple - in the times table of a number
 eg 20 is a multiple of 10
square number - can be written as a number multiplied by itself eg 9 is a square number because it can be written as 3×3 .
 The first 7 square numbers are 1, 4, 9, 16, 25, 36, 49, ...
prime number - can only be divided by one and itself: 2, 3, 5, 7, 11, 13, 17... are prime

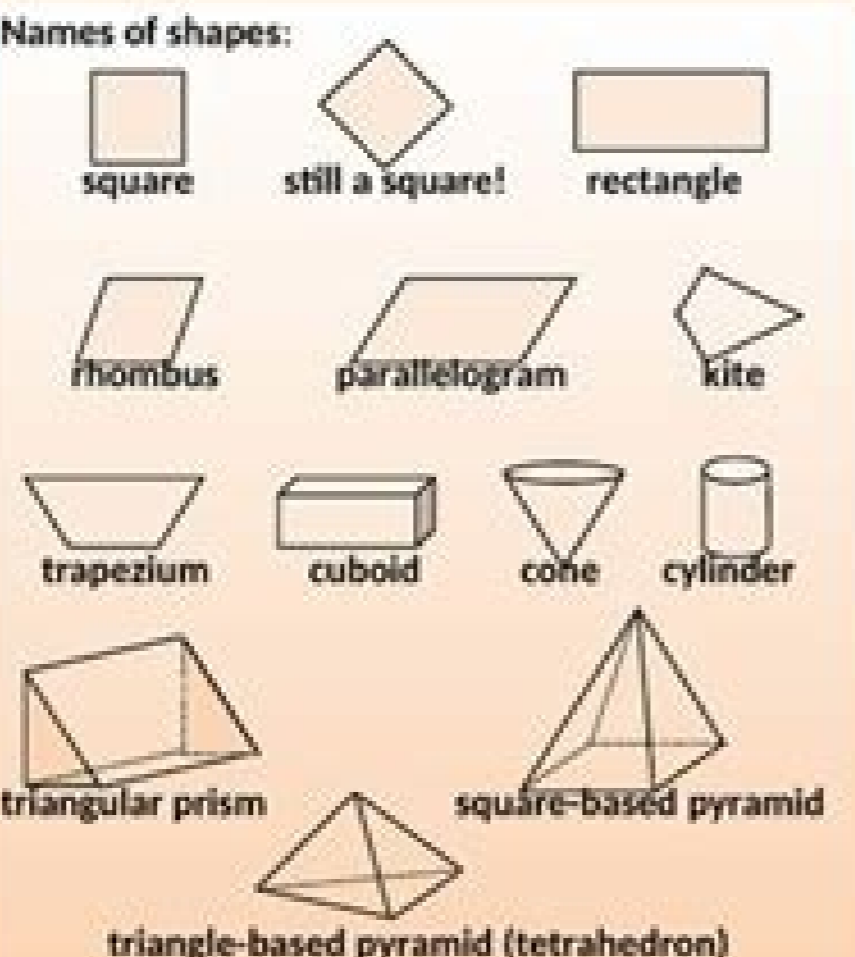
Special words: **integer** - whole number
product - multiply the numbers
difference - biggest take away the smallest
estimate - round the numbers first and give an approximate answer
solve - work out the value of the letter
expand - multiply out brackets $2(x+3)=2x+6$
factorise - put brackets back in $x^2-3x = x(x-3)$

Averages:
mode/modal - the most common value or values
median - the middle value when they are in order
mean - add up all the values and divide by the number of terms
range - highest value take away the lowest value
Estimating Mean from a table
 Create 2 extra columns, one for midpoint and the other for midpoint x frequency.
 Find the total for $mp \times f$ and divide by total frequency.

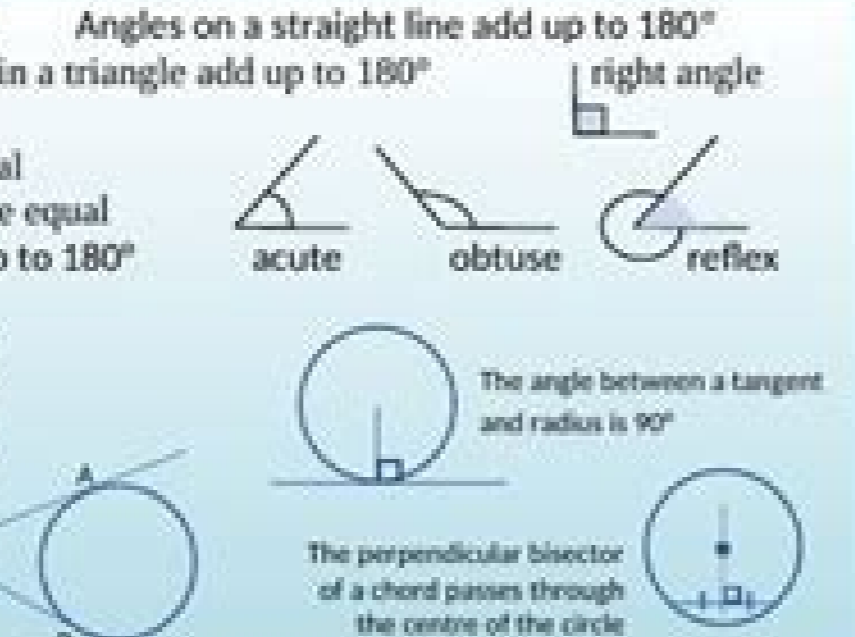
Sets: $\emptyset = \{ \}^{\emptyset} = ()$, the empty set
 ξ means the universal set
 $15 \in P$ means 15 is a member of set P
 $15 \notin P$ means 15 is **not** a member of set P
 $Q \cap R$ means the set of elements that are in both Q and R
 $V \cup W$ means the set of elements that are in V or W or both

Key formulae:
Circumference of circle = πd
Area of rectangle = length x width
Area of triangle = base x height $\div 2$
Area of circle = πr^2
Curved surface area of cylinder = $2\pi rh$
Volume of cuboid = length x width x height
Volume of prism = cross-section area x length
Volume of cylinder = $\pi r^2 h$
perimeter is the distance round the edge
area is the space inside the shape

Names of shapes:



Angle Rules: Vertically opposite angles are equal
 Angles at a point add up to 360°
 Angles in a quadrilateral add up to 360°
 Alternate angles in parallel lines (Z angles) are equal
 Corresponding angles in parallel lines (F angles) are equal
 Co-interior angles in parallel lines (C angles) add up to 180°
 Angles on a straight line add up to 180°
 Angles in a triangle add up to 180°
 Exterior angles of polygons always add up to 360° .
 In a polygon, interior angle + exterior angle = 180°
 Interior angle sum of n-sided polygon = $180(n-2)$



Answers

For full worked answers, visit www.ck12.org/igcse/vigcse/



Number

Factors, multiples and primes

- 1
- 17, 19, 23
- 60 = $2^2 \times 3 \times 5$
- Divisor 1 fits the rules at 6 12 18 24 30 36 42 48 54 60 seconds
 Divisor 2 fits the rules at 4 16 32 48 64 seconds
 They fit the rules at the same time after 48 seconds after 24 and 5 seconds later.

Ordering integers and decimals

- 1) 13, 8, -1, 1, 9
 2) 0.52, 0.3, 0.25, 0.200
 3) a) $-4 < 0.4$ b) $-0.404 < -0.44$
 c) $-2.20 < -0.3$ d) $0.23 < 0.1$

Calculating with negative numbers

- a) 35 b) 4 c) 5 d) 1
 2) a) -13 b) 1 c) 10 d) -12
 3) 25
 4) 1 correct answer, 5 incorrect answers

Multiplication and division

- a) 7167 b) 11 293 c) 10 d) 48
 2) a) 12 b) 12
 3) -15.6
 4) 175 5449

Calculating with decimals

- 26.76
 2) 27.51
 3) 18.75
 4) To 1 p.p. 0.27. To 2 p.p. 0.275

Rounding and estimation

- a) 0.78 b) 0.80
 2) 5
 3) a) 2750
 b) Overestimate, because the concert ticket price and number of tickets sold were rounded up, and the price of tickets was 20 p.p. more than it really is.

Converting fractions, decimals and percentages

- a) $\frac{15}{100}$ b) 12%
 b) 0.63 d) $\frac{1}{2}$
 2) a) 0.315 b) 31.25%
 3) $\frac{3}{4} = 0.75$ $\frac{6}{10} = 0.6$ $\frac{4}{10} = 0.4$
 Therefore, 0.75 is largest.

Ordering fractions, decimals and percentages

- a) $\frac{1}{2} < 0.6$ b) $\frac{1}{3} > 0.2$ c) $\frac{2}{3} < 0.2$
 2) a) $\frac{1}{2}$ b) $\frac{1}{3}$ c) $\frac{1}{4}$
 b) $\frac{1}{12}$ c) $\frac{1}{4}$ d) $\frac{1}{6}$
 3) $\frac{1}{2} = 50\%$ $\frac{1}{3} = 33\%$ $\frac{1}{4} = 25\%$ $\frac{1}{5} = 20\%$
 4) $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$

Calculating with fractions

- 1) $\frac{2}{3}$ 2) $\frac{1}{6}$ 3) $\frac{1}{2}$ 4) 10

Percentages

- 10
- 71.43%
- 14.10%
- 21.5%

Order of operations

- 7 2) 25 3) 4.2964

Exact solutions

- 0.155 m^2
 2) $\frac{1}{2} \text{m}^2$
 3) 243 cm^2
 4) Area of a circle = πr^2
 Use radius of the circle when $r = \frac{3}{2}$
 The area of the plate is $\pi \times \left(\frac{3}{2}\right)^2 = \frac{9}{4}\pi \text{ m}^2$
 Each = 20p
 The area of the shape = $\frac{9}{4} \times \pi \times 2^2 = \frac{9}{2} \times \pi \times 4 = 36\pi$

Indices and roots

- a) 2^4 b) 5^3
 2) a) 18 b) 18
 3) $2^4 = \frac{1}{2}$ $3^2 = 9$ $2^5 = 32$ $2^6 = 64$
 4) 1

Standard form

- 2.56 2) 0.42 or 4.2×10^{-2}
 3) 3.4×10^4 4) $2.6 \times 10^6 \text{ km}$

Listing strategies

- 1) 200, 201, 202, 203, 204, 205

2) a)

		4-sided spinner			
		0	1	2	3
3-sided spinner	1	1	2	3	4
	2	2	3	4	5
	3	3	4	5	6

- a) 1
 3) 35
 4) 15, 16, 17, 18, 19, 20, 21, 22

Algebra

Understanding expressions, equations, formulae and identities

- a) identity b) equation c) expression
 2) a) equation, because it has an equals sign and can be solved
 b) formula, because it has letter terms, an equals sign and the value of the letter can vary
 c) an equation because it has letter terms and no equals sign
 d) formula, because it has letter terms, an equals sign and the value of the letter can vary
 3) a) Any of $2x + 4$ or $4x - 2$ or $2(x + 2)$ or $4(x - 1)$
 b) Any of $2x = 10$ or $10 = 2x$

Simplifying expressions

- 2x
 2) a) $48x^2$ b) $32x^2$
 3) 5y
 4) 8a

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