Number and Place Value



Four million, seven hundred and twelve thousand, six hundred and forty-nine point three, five, eight.

1	I	6	VI	10	X
2	Ш	7	VII	50	L
3	III	8	VIII	100	С
4	IV	9	IX	500	D
5	V	10	X	1000	Μ

Factor – A number which will divide exactly into another number. Factor of 12 are: 1 2 3 4 6 12

Prime number – A number with only two factors, 1 and itself. 2 3 5 7 11 13 17 19 23

Multiple – The product of a given number with another factor Multiples of 3: 3 6 9 12 ... 36 300

Square number – A number squared is a number multiplied by itself. $4^2 = 4 \times 4 = 16$

Cube number – A number cubed is a number multiplied by itself twice. $5^3 = 5 \times 5 \times 5 = 125$



F.D.P





Geometry

Statistics

Algebra



Geometry - Shape

Equilater al Triangle	celes Scalene H Iriangle Triangle	Right Angle iangle	Hexagon Heptage	on Octagon
Quadrilateral	Image	Sides	Angles	Symmetry
Square		Four equal sides 2 pairs of parallel lines	All angles are 90°	Four lines of symmetry Order of rotation 4
Rectangle		Two pairs of equal sides 2 pairs of parallel lines	All angles are 90°	Four lines of symmetry Order of rotation 2
Parallelogram		Two pairs of equal sides 2 pairs of parallel lines	Opposite angles are equal	No lines of symmetry Order of rotation 2
Rhombus		Four equal sides 2 pairs of parallel lines	Opposite angles are equal	Two lines of symmetry Order of rotation 2
Kite	\diamond	Two pairs of equal sides	Opposite angles are equal	One line of symmetry Order of rotation 0
Trapezium		One pair of parallel sides	No equal sides	No lines of symmetry Order of rotation 0
ertex – A point at	, which two or more li	ne segments or edge	es meet	

Cube Cuboid phere Square-Cone Tetrahedron based pyramid Hexagonal Triangular rlinder prism prism cute Right ngle angle than 90° Exactly 90° Reflex angle About a Greater than point 180° Exactly 360° Less than 360°

F.D.P

Others

Number & Place Value

Calculation

Edges – The intersection of two faces of a three-dimensional object

Polygon - A two-dimensional shape with three or more straight sides

Faces - A plane surface of a three-dimensional object

Geometry

Greater than Exactly 180° 90° Less than 180° **Statistics** Algebra

Obtuse

angle

Straight

line



Axis - Axes are The horizontal number line (x-axis) and the vertical number line (y-axis) on the coordinate plane.

Geometry

Statistics

Algebra

F.D.P

Others

Coordinates - Numbers used to locate a point on a grid.

Number &

Place Value

Parallel lines – Lines with no common points and always the same distance apart.

Calculation

Perpendicular lines – A line at right angles to another line or plane.

Statistics



Measurement

Months	Days	
January	31	
February	28 (29 leap year)	
March	31	
April	30	
May	31	
June	30	
July	31	
August	31	
September	30	
October	31	
November	30	
December	31	



Area – The amount of space within a perimeter (expressed in square units).
Perimeter – The length of the distance around the boundary of a shape.
Volume – The amount of space a 3D shape takes up.





Fractions. Decimals. Percentages



Numerator

Denominator

The denominator tells us how many equal parts the whole has been divided into.



23% of 60 = 13.8







Fractions	Decimals	Percentages	
$\frac{1}{100}$	0.01	1%	
$\frac{1}{10}$	0.1	10%	
$\frac{1}{5}$	0.2	20%	
$\frac{1}{4}$	0.25	25%	
$\frac{1}{2}$	0.5	50%	
$\frac{3}{4}$	0.75	75%	
$\frac{1}{1}$	1	100%	





 $\frac{2}{3} + \frac{1}{9} = \frac{6}{9} + \frac{1}{9} = \frac{7}{9}$

$$2 - \frac{1}{5} = \frac{10}{5} - \frac{1}{5} = \frac{9}{5} = 1\frac{4}{5}$$

$$\frac{2}{3} \times \frac{1}{9} = \frac{2}{27}$$

$$\frac{4}{5} \div \frac{2}{3} = \frac{4}{5} \times \frac{3}{2} = \frac{12}{10} = \frac{6}{5} = 1\frac{1}{5}$$

F.D.P

Algebra



Statistics



Algebra

Algebra is a part of maths that uses letters and symbols in the place of numbers. Each letter or symbol is a variable and can represent a range of values. An algebraic statement may be an expression, an equation, a formula or an identity.



Statistics

Algebra

a + a + a = 3a

 $y \times y \times y \times y = y^4$

$$7w = 7 \times w$$

$$\frac{10}{t} = 10 \div t$$

Equation - A statement of equality between two expressions.

2x + 5 = 7

Expression – An expression in math is a statement having minimum of two numbers, or variables, or both and an operator connecting them.

Geometry

3x + 4

Formula – A formula is a mathematical rule or relationship that uses letters to represent amounts which can be changed – these are called variables.

Area = b x h

Identity - An equation that is true no matter what values are chosen

Calculation

m + m + m ≡ 3m

Number &

Place Value



F.D.P



