

## Number

	Topics	Clip Number	R	A	G
Arithmetic	Money	743 – 754			
	Four operations	18 – 24, 47 – 51, 143 – 146			
	Negative number	37 – 44			
Fractions	Order fractions, decimals, percentages	52, 55, 60, 73 – 76, 82, 83, 149			
	Fraction of an amount	77			
	One amount as a fraction of another	62			
	Fraction arithmetic	65 – 70, 80			
	Equivalent fractions	59, 61			
Properties	Place value	13, 45			
	Order integers	14, 37			
	Multiples	33			
	Factors	27			
	Lowest Common Multiple	34, 35, 36			
	Product of prime factors	29, 30, 32, 35			
Powers and roots	Square root	101			
Standard form	Conversion	122, 123, 124			
	Calculation	125, 126, 127			
Approximation and Estimation	Rounding	17, 56, 130, 133			
	Estimation	131			
	Error interval	774 – 777			
Other	Mathematical symbols	14			
	Calculator use	129			

## Algebra

	Topics	Clip Number	R	A	G
Manipulation	Simplification	156 – 159			
	Expansion of bracket	160, 161			
	Factorisation	168 – 171, 223, 224			
	Substitute values	155, 278, 780 – 783			
	Change subject of a formula	280 – 287			
	Forming an expression	151, 152, 153			
	Laws of indices	173, 174			
Equations and inequalities	Linear equation	177 – 186, 188, 189			
	Linear inequality	265 – 272			
	Linear simultaneous equations	190 – 195, 218, 219			
	Form an equation	176			
	Quadratic equation	230, 234			

## Algebra (continued)

	Topics	Clip Number	R	A	G
Graphs	Coordinates	199, 200			
	Straight line graph	205 – 213			
	Quadratic graph	251 – 255			
Functions	Number machines	176, 177			
Sequences	Linear sequence	196, 197, 198			

## Ratio, proportion, and rates of change

	Topics	Clip Number	R	A	G
Conversion	Length, mass, time, area	692 – 697, 700, 701, 705, 706, 709, 710, 711			
	Compound units	724, 731, 737, 738			
	Scale drawing	864 – 871			
Percentages	Percentage to fraction	82			
	Decimal to percentage	55			
	Percentage of an amount	84, 85, 86			
	Percentage increase/decrease	88, 90, 91, 92, 94, 97, 98			
	Percentage profit	760, 761			
	One quantity as a percentage of another	62, 76, 97			
	Depreciation	95			
	Reverse percentage	96			
Ratio	Write as a ratio	328, 329			
	Share in a ratio	332 – 335			
	Use of ratio	335 – 338			
	1 : $n$ form	331			
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742			
	Currency conversion	707, 708			
Compound Measures	Speed	716 – 724			
	Average speed	722, 876, 877			
	Density	725 – 729, 731			

## Geometry and measures

	Topics	Clip Number	R	A	G
Shape	Triangle properties	823			
	Quadrilaterals	824, 825, 826			
	Polygons	822 – 828			
	Triangular prism	829, 830			
	Circles	592			

## Geometry and measures (continued)

	Topics	Clip Number	R	A	G
Shape (continued)	Parallel and perpendicular lines	821			
	Reflection	639, 640, 641			
	Transformations	637 – 645, 648 – 654			
	Plan and elevation	837 – 844			
Angles	Angles in a triangle	484 – 491			
	Vertically opposite angles	480			
	Angle properties of parallel lines	481, 482, 483, 490, 491			
	Angles in a polygon	560 – 565			
	Bearings	492 – 496, 869			
Length, area, and volume	Area of a rectangle	553, 554, 555			
	Area of a triangle	557, 558			
	Area of a trapezium	559			
	Volume of a cube	568, 569			
	Volume of a cylinder	572, 573, 574			
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem	498, 499, 501, 502			
	Exact trigonometric values	845			

## Probability

	Topics	Clip Number	R	A	G
Probability	Probability scale	349, 350			
	Probability	351 – 363			
	Frequency tree	368, 369			
	Tree diagram	361, 362, 363			
	Combined events	358, 359, 360			

## Statistics

	Topics	Clip Number	R	A	G
Diagrams	Pictogram	426			
	Bar chart	425			
	Interpret graph	425 – 429, 450 – 454			
	Two-way table	422, 423, 424			
	Frequency table	401, 402, 403			
	Stem and leaf diagram	430 – 433			
	Frequency polygon	441			
Measures	Mode, median, mean, range	404 – 410, 414 – 417, 419, 420			
Population	Comparison of distributions	432, 433			