



## National 5 Course



### Past Paper Analysis-Applications

Similar Shapes	Year	Paper	Examined	Question	Marks
	2017	I	Similar triangle/solve equation	15	3
	2016	II	Area S.F	11	3
	2015	II	Area S.F	9	4
	2014	II	Volume S.F	5	3

  

Volume	Year	Paper	Examined	Question	Marks
	2017	II	Sphere	6	5
	2016	II	Cone	7	5
	2015	II	Sphere	6	5
	2014	II	Cone/hemisphere	7	5

  

Statistics	Year	Paper	Examined	Question	Marks
	2017	I	SIQR	2	2
	2017	I	Standard Deviation (with surd)	12	4
	2016	II	Standard Deviation	6	6
	2015	I	Standard Deviation (non-calc)	5	3
	2015	I	SIQR	10	5
	2014	II	Standard Deviation	4	5

  

Vectors	Year	Paper	Examined	Question	Marks
	2017	I	3-D Coordinates	5	2
	2017	II	Magnitude	1	2
	2017	II	Vector Journey	8	3
	2016	I	Resultant Vector	1	2
	2016	I	3-D coordinate + magnitude	7	4
	2016	II	Vector Journey	3	1
	2015	II	Magnitude	4	2
	2015	II	Resultant	5	2
	2014	I	Resultant	4	2
	2014	II	3-D coordinate	2	2

Trigonometry	Year	Paper	Examined	Question	Marks
	2017	I	Area of Triangle	7	2
	2017	II	Cosine Rule (side)	3	3
	2017	II	Sine rule (side) + bearings	10	4
	2017	II	Trig Equation to find height	15	6
	2016	I	Trig Identity	11	2
	2016	II	Sine Rule (angle)	8	3
	2016	II	Trig Equation (tan)	14	3
	2016	II	Cosine Rule (side) + CAH	16	4
	2015	I	Trig Graph ( $y = a \sin bx^\circ$ )	6	2
	2015	I	Unusual-order cos values	9	2
	2015	II	Cosine Rule (length)	3	3
	2015	II	Area Triangle (disguised)	11	4
	2015	II	Sine Rule (side) + bearings	13	4
	2014	I	Sine Rule (length)- non-calc	5	3
	2014	I	Trig Graph ( $y = a \sin (x + b)^\circ$ )	10	2
	2014	II	Cosine Rule (angle) + bearings	10	5
	2014	II	Trig Equation (cos)	12	3
Fractions-numerical	Year	Paper	Examined	Question	Marks
	2017	I	Division	3	2
	2016	I	BODMAS (add/multiply)	2	2
	2015	I	Subtract	1	2
	2014	I	Multiply	1	2
Percentages Calculations	Year	Paper	Examined	Question	Marks
	2017	II	Percentage Increase	2	3
	2017	II	Working Back	5	3
	2016	II	Percentage Decrease	1	3
	2015	II	Percentage Increase	1	3
	2015	II	Working Back	8	3
	2014	II	Percentage Decrease	1	3
	2014	I	Working back	9	3
Scientific Notation	Year	Paper	Examined	Question	Marks
	2016	II	Division	2	2



## National 5 Course



### Past Paper Analysis-Expressions and Formulae

Algebra	Year	Paper	Examined	Question	Marks
	2017	I	(- -)(- - -) break brackets	4	3
	2017	I	Inequality	8	3
	2016	I	Equation with Fractions	8	3
	2015	I	Inequality	2	3
	2015	I	(- -)(- - -) break brackets	4	3
	2014	I	(- -)(- -) break brackets	2	2
	Surds	Year	Paper	Examined	Question
2017		I	Standard deviation + surd	12	4
2016		I	Rationalise denom + function	9	2
2015		I	Standard deviation + surd	5	3
2015		I	Rationalise denominator	13	3
2014		I	Adding Surds	8	3
Circle	Year	Paper	Examined	Question	Marks
	2017	I	Circle diagram-find angle	9	3
	2017	II	Arc length-work back	14	3
	2016	I	Sector Area	3	3
	2016	II	Circle Diagram-find angle	5	3
	2015	I	Circle Diagram-find angle	3	3
	2015	II	Arcs-working back	10	4
	2014	II	Sector Area + area of triangle	13	5
Indices	Year	Paper	Examined	Question	Marks
	2017	II	Fractional and negative index	12	2
	2016	II	Multiply, power + negative	10	3
	2015	I	Fractional index-evaluate	14	2
	2014	II	Multiply and divide	8	3

## Algebraic Fractions

Year	Paper	Examined	Question	Marks
2017	I	Subtraction	11	2
2017	II	Simplify	9	4
2016	II	Addition	13	3
2015	I	Simplify	12	3
2015	II	Division	7	3
2014	II	Subtraction	9	3



## National 5 Course



### Past Paper Analysis - Relationships Unit

Topic	Year	Paper	Examined	Question	Marks
	Simultaneous Equations	2017	I	Graph with equations given	13
	2016	I	Problem-elimination	4	6
	2015	I	Problem-elimination	11	3
	2014	II	Problem-elimination	3	6
Pythagoras	2017	II	Converse	7	3
	2017	II	Tunnel type	13	4
	2016	I	3-D pythagoras + vectors	7	4
	2016	II	Tunnel type	15	4
	2015	II	Tunnel type	12	4
	2014	I	Pythagoras in Circle	12	4
	2014	II	Converse	6	4
Functions	2017	I	Evaluate $f(-5)$	1	2
	2015	II	Working back to get a	2	2
Quadratics/Complete Square	2017	I	Parabola/complete square	14	3
	2017	II	Quadratic Formula	4	3
	2016	I	Sketch-complete square given	10	3
	2016	I	Discriminant	6	2
	2016	I	Form + solve quadratic equ'n	12	7
	2016	II	Complete Square	9	2
	2015	I	Parabola/complete square	7	3
	2015	II	Form + solve quadratic equ'n	14	7
	2014	I	Complete square	3	2
	2014	I	Parabola $y = kx^2$ , find k	7	2
	2014	I	Parabola-find max height	13	7

Straight Line  4-6 periods	Year	Paper	Examined	Question	Marks
	2017	I	Find equation of line	6	3
	2017	II	Rearrange to find 'm'	11	2
	2016	I	Line of best fit	5	4
	2015	I	Find equation of line	8	3
	2014	I	Line of best fit	6	4
	2014	I	Rearrange to find 'm'	11	4
Changing the Subject	Year	Paper	Examined	Question	Marks
	2017	I	Algebraic Fraction	10	3
	2016	II	Undo square root	12	3
	2014	II	Linear equation with fraction	11	3