Year 11: Precision Revision









Harrah Kettle Maths











Using QLA effectively. (Question Level Analysis)





Sparx Maths - Home

Questions	Topic	S	core	2	Sparx Code
1	Converting between fractions, decimals and percentages	1	/	1	U888
2	Special sequences	0	/	1	U680
3	Converting units of length, mass and capacity	1	/	1	U388
4	Finding the lowest common multiple (LCM)	1	/	1	U751
5	Adding and subtracting integers	1	/	1	U417
6	Multiplying and dividing with place value, Adding and subtracting integers	3	/	3	U735, U417
7a	Estimating and measuring	1	/	1	U102
7b	Understanding, measuring and drawing angles	1	/	1	U447
7c	Understanding, measuring and drawing angles	1	/	1	U447
8a	Reading and plotting coordinates	1	/	1	U789
8b	Reading and plotting coordinates	1	/	1	U789
8c	Calculating midpoints	1	/	1	U933
9a	Drawing bar charts	3	/	3	U363
9b	Interpreting bar charts	2	/	2	U557
9с	Converting between ratios, fractions and percentages	1	/	1	U176
9d	Writing and simplifying ratios	1	/	1	U687
10a	Reflection	2	/	2	U799
10b	Plotting horizontal, vertical and diagonal lines	1	/	1	M797
11a	Interpreting frequency tables and two-way tables	3	/	3	U981
11b	Interpreting frequency tables and two-way tables	2	/	2	U981
12	Using the correct order of operations	0	/	1	U976
13a	Function machines with numbers	2	/	2	M175
13b	Function machines with numbers	2	/	2	M175
14a	Finding the volume of cubes and cuboids	0	/	2	U786
14b	Finding the surface area of cubes and cuboids	2	/	3	U929
15a	Factorising into one bracket	0	/	1	U365
15b	Solving equations with two or more steps	3	/	3	U325
16	Constructing and solving linear simultaneous equations	0	/	5	U137
17	Sharing amounts in a given ratio	2	/	3	U577
18*	Using a written method to divide with decimals	1	/	3	U868
19a*	Mutually exclusive events, Expected results from repeated experiments	1	/	3	U683, U166
19b*	Expected results from repeated experiments	0	/	1	U166
20a*	Adding and subtracting mixed numbers	2	/	2	U793
20b*	Dividing with mixed numbers	1	/	3	U538
21*	Angles on parallel lines, Angles in triangles	0	/	3	U826, U628
22a*	Estimating calculations, Calculating with speed	1	/	3	U225, U151
22b*	Estimating calculations	1	/	1	U225
23*	Angles in polygons, Constructing and solving quadratic equations	0	/	4	U427, U150
24*	Using and finding equations of linear real-life graphs	0	/	1	U862
25	Changing the subjects of formulae with two or more steps	0	/	2	U181
26	Factorising to solve quadratic equations of the form x^2+bx+c=0	0	/	3	U228
		1	/	ļ	
		•			





M4TH5

ULTIMATE FOUNDATION CHALLENGE

Year 11

Name	
Class	



GCSE (Edexcel) Revision 1st Class Maths



1 QUESTION ON **EVERY TOPIC GCSE HIGHER**





-				
1	Expand/Factorise		27	Frequency Polygons
2	Prime Factorisation		28	Venn Diagrams
3	Percentage Change/Profit		29	Standard Form (Conversion/Calculation)
4	Mixed Number Operations		30	Best Buys + Exchange Rate
5	Changing the Subject		31	Plans and Elevations + Volume of Prism
6	Inequalities		32	Simultaneous Equations
7	Reciprocals + Error Intervals	П	33	Surface Area of Pyramid
8	Averages from Tables	П	34	Distance-Time Graphs
9	Using a Calculator	П	35	Angles in Regular Polygons
10	Angle Bisectors	П	36	Compound Interest
11	Straight Line Graphs	П	37	Trigonometry (SOHCAHTOA)
12	Estimation	П	38	Trigonometry (SOHCAHTOA)
13	Area/Circumference of Circles	П	39	Probability In Tables
14	Diagram Sequences	П	40	More Angles in Regular Polygons
15	Reverse Percentages		41	Drawing Quadratic Graphs
16	Index Laws	П	42	Loci + Perpendicular Bisectors
17	Quadratics (Expand, Factorise, Solve)	П	43	HCF/LCM
18	Inverse Proportion	П	44	Volume of Cone/Sphere
19	Speed, Distance, Time	П	45	Similar Triangles
20	Scatter Diagrams	П	46	+ Angles in Parallel Lines
21	Transformations	П	46	Finding Equation of a Straight Line
22	Pythagoras		47	Forming and Solve Equation + Area of Trapezium
23	Interpreting Pie Charts		48	Probability Tree Diagrams
24	Column Vectors		49	Midpoints + Congruent Shapes
25	Recipes		50	Features of Quadratic Graphs
26	Standard Form (Ordering)		51	Direct/Inverse Proportion

ĺ	52	Types of Graphs		78	Completing the Square	
l	53	Density, Mass, Volume		79	Conditional Probability	
l	54	Pressure, Force, Area		80	Sector Area + Area of a Triangle (Trig)	
l	55	Equations of Parallel Lines		81	Exact Trig Values + Surds and Brackets	
l	56	Fibonacci Sequences		82	Proportionality	
l	30	+ Simultaneous Equations	Щ	83	Equations of Perpendicular Lines	
l	57	Angles in Irregular Polygons		84	Iteration	
l	58	Pythagoras + Arc Length		85	Interpreting Histograms	
l	59	Stem and Leaf Diagrams + Box Plots + Comparing Distributions		86	Cosine Rule (Side) + Sine Rule (Side)	
l			\vdash	87	3D Trigonometry + Pythagoras	
l	60	Surface Area of Spheres/Cones	\square	88	Bounds	
l	61	Expand Triple Brackets	Щ	89	Algebraic Proof	
l	62	More Index Laws		90	Solving Quadratic Inequalities	
l	63	Negative Scale Factor Enlargements	Щ	91	Similar Areas/Volumes	
l	64	Inequality Regions		92	Cosine Rule (Angle)	
l	65	Capture Re-capture		93	Circle Theorems	
l	66	Estimating Powers and Roots		94	Invariant Points	
l	67	Product Rule for Counting		95	Equations with Algebraic Fractions	
l	68	Graphs of Trigonometric Functions		96	Bearings + Sine Rule (Angle)	
l	69	Cumulative Frequency		97	Velocity Time Graphs	
l	70	Geometric Sequences + Surds		98	Surds (Rationalise Denominator)	
l	71	Exponential Graphs		99	Completing the Square (Harder)	
	72	Equation of Circle + Solving		100	Simplifying Algebraic Fractions	
		Simultaneous Equations Graphically		101	Non-Linear Simultaneous Equations	Ш
	73	Quadratic Formula		102	Transformations of Graphs	
	74	Quadratic nth term		103	Equation of Tangent to a Circle	
	75	Functions		104	Geometric Proof	
	76	Drawing Histograms		105	General Iterative Processes	
	77	Recurring Decimals to Fractions		106	Vectors	
١						_

© 1stclassmaths

Essential Easter work:

Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions









M4TH5 ESSENTIAL EASTER WORK

Year 11

FOUNDATION PAPERS

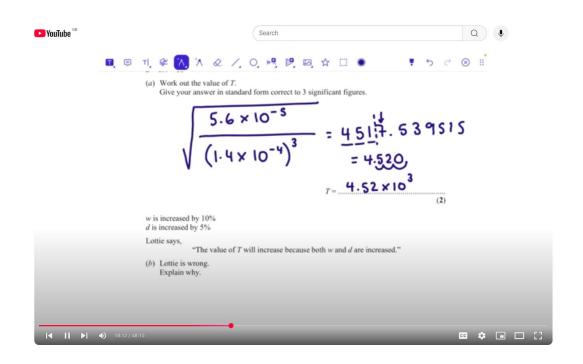
Name			•	•	•	•					•	•	•	•	•	•	•	•				•
Class	٠.																					

FULL WRITTEN SOLUTIONS:



Harrah Kettle Maths

Half Past Papers — Hannah Kettle Maths







Write your name here Sumame	Other names
Pearson Edexcel Level 1/Level 2 GCSE (9-1)	
Mathematics FOR FULL VIDEO SOL SCAN THE QR CO	ODE 📵 🖳 🕮 📗
Half Past Paper – Week 5	
	Total Marks

Q Topic	Marks	Sparx Code
1a Interpreting scatter graphs	1	U277
1b Interpreting scatter graphs	1	U277
Interpreting scatter graph, Presenting data and making		
1c conclusions	1	U277,U571
Finding the area of trapeziums, Finding the area of		
3 triangles	2	U265,U945
5a Finding unknown angles in right-angled triangles	2	U545
5b Finding unknown angles in right-angled triangles	1	U545
7 Solving equations with the variable on both sides	3	U870
9a Standard form with a calculator	2	U161
9b Percentage change with a calculator	2	U671
11 Finding original values in percentage calculations	3	U286
13 Finding the surface area and volume of similar shapes	3	U110
15a Estimating areas under non-linear graphs	3	U882
15b Estimating areas under non-linear graphs	1	U882
17 The sine rule, The cosine rule	5	U952,U591
Understanding sin, cos and tan, Solving quadratic		
19 equations	5	U605,U960,U665
21a Geometric proofs with congruence and similarity	3	U887
21b Geometric proofs with congruence and similarity	2	U887
Total	40	

ESSENTIAL equipment



