Tables for determining National Curriculum Levels from MEP Year 8 Diagnostic Test Results (Standard)

Diagnostic Test A

Level 5 :	Level 6 :	Level 7 :
22 ≤ Mark < 34	34 ≤ Mark < 42	Mark ≥ 42

Diagnostic Test B

Level 5 :	Level 6 :
20 ≤ Mark < 37	Mark ≥ 37

Diagnostic Test C

Level 5 :	Level 6 :
17 ≤ Mark < 36	Mark ≥ 36

Diagnostic Test D

Level 5 :	Level 6 :
29 ≤ Mark < 42	Mark ≥ 42

Diagnostic Test E

Level 5 :	Level 6 :
28 ≤ Mark < 43	Mark ≥ 43

Diagnostic Test F

Below Level 5 :	Level 5 :	Level 6 :
Mark < 44	44 ≤ Mark < 85	Mark ≥ 85

The remainder of this document details the National Curriculum attainment target and level for each question in each of the Year 8 Diagnostic Tests (Standard Route).

Year 8   Diagnostic Test A   Summary of Levels

Level 5 : 22 ≤ Mark < 34	Level 6 : 34 ≤ Mark < 42	Level 7 : Mark ≥ 42

Chapter	Number	Question	Attainment Target	Level
1.4	1	Finding the shortest distance on a network diagram	-	-
1.1	2	Reading a mileage chart	4	4
2.2	3	Writing down the prime factors of a number	2	5/6
2.4	4	Finding the Highest Common factor	2	5
2.4	5	Finding the lowest Common multiple	2	5
3.2	6	Calculating the longest side of a right angled triangle	3	7
3.4	7	Checking the triangle contains a right angle	3	7
3.4	8	Calculating the length of a diagonal in a rectangle	3	7
4.3	9	BODMAS	2	5
4.5	10	Writing nums to n decimal places/significant figures	2	5/6
	11	Money problems.. The cost of	2	5
	12	Money problems.. How much change	2	5

Attainment Target	Questions	Levels
Number & Algebra 2	3,4,5,9,10,11,12	5/6,5,5,5,5/6,5,5
Shape, Space & Measure 3	6,7,8	7,7,7
Statistics 4	2	4
Non NC material	1	

Year 8   Diagnostic Test B   Summary of Levels

Level 5 :	Level 6 :
20 ≤ Mark < 37	Mark ≥ 37

Chapter	Number	Question	Attainment Target	Level
2.2	1	Finding the prime factors of a number	2	5
3.2	2	Calculating the longest side (right angled triangle)	3	7
4.3	3	BODMAS	2	5
4.5	4	Rounding to 1 decimal place	2	5
5.2	5	Calculating averages	4	5
5.2	6	Completing a frequency table	4	4
6.4	7	Drawing the net of a cube to finds its surface area	3	6
6.2	8	Drawing a cube on isometric paper	3	6
6.3	9	Drawing plans and elevations of a cuboid	3	6
7.1	10	Simplifying ratios	2	5
7.1	11	Writing ratios in the form 1 to n	2	5
7.4	12	Converting units	2	5
7.3	13	Sharing an amount in a given ratio	2	6
7.2	14	Mixing amounts in a given ratio	2	6
8.1	15	Operations with directed numbers	2	5/6
8.1	16	Multiplying out ( )	2	5
8.2	17	Solving linear equations with ( )	2	6
8.3	18	Factorising expressions	2	7

Attainment Target	Questions	Levels
Number & Algebra 2	1,3,4,10,11,12,13,14,15,16,17,18	5,5,5,5,5,5,6,6,5/6,5,6,7
Shape, Space & Measure 3	2,7,8,9,	7,6,6,6
Statistics 4	5,6	5,4

Level 5 :	Level 6 :
17 ≤ Mark < 36	Mark ≥ 36

Chapter	Number	Question	Attainment Target	Level
4.3	1	BODMAS	2	5
4.5	2	Round to 1 decimal place	2	5
5.2	3	Calculating averages	4	5
6.3	4	Drawing the plan and elevation of a cuboid	3	6
7.1	5	Writing a ratio in its simplest form	2	5
12.2	6	Solving an equation	2	6
9.1	7	Adding and Subtracting Fractions	2	6
9.1	8	Finding a fraction of an amount	2	5
9.3	9	Writing a percentage as a fraction	2	5
9.3	10	Writing a fraction as a percentage	2	5
9.4	11	Finding a percentage of an amount	2	5
9.6	12	Adding a percentage to an amount	2	6
10.4	13	Completing a probability tree diagram	4	7
10.2	14	Probabilities associated with throwing 2 dice	4	6
11.1	15	Measuring and naming angles	3	5
11.3	16	Compass Directions	3	4
11.2	17	Calculating angles around a point	3	5
11.3	18	Calculating Bearings	3	6

Attainment Target	Questions	Levels
Number & Algebra 2	1,2,5,6,7,8,9,10,11,12,	5,5,5,6,6,5,5,5,5,6,
Shape, Space & Measure 3	4,15,16,17,18	6,5,4,5,6
Statistics 4	3,13,14	5,7,6,

Year 8   Diagnostic Test D   Summary of Levels

Level 5 :	Level 6 :
29 ≤ Mark < 42	Mark ≥ 42

Chapter	Number	Question	Attainment Target	Level
4.5	1	Rounding numbers to 1 decimal place	2	5
7.1	2	Simplifying Ratios	2	5
9.1	3	Subtracting Fractions	2	6
9.1	4	Finding a Fraction of an amount	2	5
9.4	5	Finding a percentage of an amount	2	5
10.1	6	The probability of throwing a 6 on a dice	4	6
11.2	7	Calculating angles around a point	3	5
12.1	8	Substituting +ve/-ve numbers into an equation	2	5
12.1	9	Operations with directed numbers	2	5/6
12.2	10	Solving equations	2	6
13.3	11	Money Problems (Earnings)	2	5
13.2	12	Time Problems	3	3
13.2	13	Converting between 12 and 24 hour clock	3	3
13.2	14	Time Problems	3	4
13.1	15	Money Problems	2	4/5
14.1	16	Plotting points in 1 quadrant	3	4/5
14.1	17	Plotting polygons on a co-ordinate grid	3	5

Attainment Target	Questions	Levels
Number & Algebra 2	1,2,3,4,5,8,9,10,11,15	5,5,6,5,5,5,5/6,6,5,4/5
Shape, Space & Measure 3	7,12,13,14,16,17	5,3,3,4,4/5,5
Statistics 4	6	6

Level 5 :	**Level 6 :**
28 ≤ Mark < 43	Mark ≥ 43

Chapter	**Number**	**Question**	**Attainment Target**	**Level**
9.1	1	Adding Fractions	2	6
9.1	2	Finding a percentage of an amount	2	5
11.2	3	Calculating angles on lines	3	5
12.1	4	Operations with directed numbers	2	5/6
12.2	5	Solving equations	2	6
13.2	6	Time problems	2	4
13.1	7	Money problems	2	4/5
14.1	8	Plotting co-ordinates in 4 quadrants	3	5
15.3	9	Stating the order of rotational symmetry	3	5
15.2	10	Calculating angles in triangles	3	5
16.4	11	Finding the area and circumference of a circle	3	6
16.1	12	Circle properties	3	5
17.2	13	Metric conversions (Length)	2	5
17.2	14	Metric conversions (Mass)	2	5
17.3	15	Imperial conversions	2	5
17.4	16	Imperial to metric conversions	2	5

Attainment Target	**Questions**	**Levels**
Number 2	1,2,4,5,6,7,13,14,15,16	6,5,5/6,6,4,4/5,5,5,5,5
Shape 3	3,8,9,10,11,12	5,5,5,5,6,5
Handling Data 4		

Year 8　　　Diagnostic Test F　　　Summary of Levels

Below Level 5 : Mark < 44	Level 5 : 44 ≤ Mark < 85	Level 6 : Mark ≥ 85

Chapter	Number	Question	Attainment Target	Level
19.1	1	Finding the enlarged shape	3	5
19.1	2	Drawing enlargements of scale factor 2 and 3	3	5
5.1	3	Drawing a vertical line graph and pie chart	4	3/6
1.1	4	Reading a two way table	4	4
	5	Calculating indices	2	6
2.4	6	Finding the Highest Common Factor	2	5
3.2	7	Finding the longest side of a right angled triangle	3	7
4.3	8	BODMAS	2	5
4.5	9	Writing numbers to 1 and 2 decimal places	2	5
13.1	10	Money Problems	2	4
5.2	11	Finding averages	4	5
6.4	12	Drawing the net of a cube and finding surface area	3	6
7.1	13	Writing a ratio in the form 1:	2	5
7.3	14	Sharing an amount into a ratio	2	6
8.1	15	Operations with directed number	2	5/6
8.1	16	Expanding ( )	2	6
8.3	17	Factorising equations	2	7
9.4	18	Finding fractions and % of amounts	2	5
9.3	19	Fraction % conversions	2	5
10.2	20	Probabilities of throwing two dice	4	6
11.3	21	Compass Directions	3	4
11.2	22	Angles between parallel lines	3	5/6
12.1	23	Substituting values into an equation	2	6
12.2	24	Solving equations	2	6
13.2	25	Working with 12 and 24 hour clock	3	3
13.2	26	Timetable problems	3	4
14.1	27	Plotting co-ordinates in 4 quadrants	3	5
15.3	28	Lines of symmetry and rotational symmetry	3	5
16.4	29	Area and Circumference of Circles	3	6
17.2	30	Converting from one metric unit to another	3	5
18.2	31	Speed Distance time problems	3	7

Attainment Target	Questions	Levels
Number & Algebra 2	5,6,8,9,10,13,14,15,16,17,18,19,23,24	6,5,5,5,4,5,6,5/6,6,7,5,5,6,6
Shape, Space & Measure 3	1,2,7,12,21,22,25,26,27,28,29,30,31	5,5,7,6,4,5/6,3,4,5,5,6,5,7
Statistics 4	3,4,11,20	3/6,4,5,6