

Grade Boundaries: June 2007 GCE Mathematics Examinations

The tables below give the lowest raw marks for the award of the stated uniform marks (UMS).

Module	80	70	60	50	40
6663 Core Mathematics C1	60	52	44	37	30
6664 Core Mathematics C2	59	50	42	34	26
6665 Core Mathematics C3	59	52	45	39	33
6666 Core Mathematics C4	58	50	43	36	29
6674 Further Pure Mathematics FP1	63	55	48	41	34
6675 Further Pure Mathematics FP2	51	43	36	29	22
6676 Further Pure Mathematics FP3	54	48	42	36	30
6677 Mechanics M1	66	57	48	39	30
6678 Mechanics M2	58	51	44	37	31
6679 Mechanics M3	65	57	49	42	35
6680 Mechanics M4	57	50	43	36	30
6681 Mechanics M5	61	53	45	37	29
6683 Statistics S1	58	51	44	37	30
6684 Statistics S2	63	55	48	41	34
6691 Statistics S3	62	54	47	40	33
6686 Statistics S4	64	56	48	40	33
6689 Decision Maths D1	51	44	37	30	23
6690 Decision Maths D2	65	57	49	41	34

	Distinction	Merit
Advanced Extension	68	49

Provisional Pass Rate Statistics: May/June 2007 GCE Mathematics Examinations

The percentage of candidates obtaining at least the given number of uniform marks (UMS) at the time of grading are given below (the final figures may vary slightly from these).

Module	80	70	60	50	40
6663 Core Mathematics C1	41.4	55.9	68.1	77.3	85.0
6664 Core Mathematics C2	32.6	46.8	58.3	69.0	78.7
6665 Core Mathematics C3	36.7	53.4	67.3	77.3	85.1
6666 Core Mathematics C4	25.0	38.5	51.4	64.3	76.0
6674 Further Pure Mathematics FP1	37.3	57.1	69.6	78.0	85.2
6675 Further Pure Mathematics FP2	40.2	57.6	70.1	81.4	89.6
6676 Further Pure Mathematics FP3	39.7	51.5	63.8	75.8	84.4
6677 Mechanics M1	34.7	52.5	64.8	73.7	81.8
6678 Mechanics M2	34.6	53.7	69.1	79.8	86.2
6679 Mechanics M3	40.5	58.4	70.9	78.8	85.9
6680 Mechanics M4	39.0	57.2	71.5	82.7	88.8
6681 Mechanics M5	45.5	57.1	74.2	81.3	87.9
6683 Statistics S1	28.9	43.6	57.9	70.4	80.7
6684 Statistics S2	33.0	56.6	71.7	81.3	88.1
6691 Statistics S3	40.8	65.4	78.3	87.1	92.6
6686 Statistics S4	46.3	79.4	90.4	94.1	95.6
6689 Decision Maths D1	28.8	43.4	57.0	70.2	80.9
6690 Decision Maths D2	34.5	62.3	78.1	85.4	91.2

	Distinction	Merit
Advanced Extension	11.2	32.8

The Uniform Mark Score (UMS):

All unit results are given in the manner of a Uniform Mark Score (UMS). It was decided by QCA that the reporting of results on modular examinations should be standardised among all Awarding Bodies and all subjects, since as modular syllabuses proliferated there were more and more scoring systems for varying numbers of modules. All Advanced GCEs are now out of a total of 600 UMS. AS is out of 300 UMS.

Different units in some subjects carry different weightings, but each Edexcel AS/Advanced GCE Mathematics combination comprises six equally weighted units with a maximum of 100 UMS possible on each unit.

The example on the right shows the UMS score for each total mark on a hypothetical Core Mathematics Module unit C1 (6663). The grade A boundary is set at 57 (out of 75), grade B at 50 and grade E at 29 and these correspond to 80, 70 and 40 UMS respectively. The notional grade boundaries are shown in bold type.

Further weighting-UMS correspondences can be found, if you can get hold of it, in a publication called *Guidance notes for Modular Syllabuses (4th Edition October 1995)*, although they're not very difficult to work out (and are given in the table below). Of course, the boundaries vary from unit to unit and from year to year. Consequently the same percentage score in different modules may lead to different UMS scores.

Joint Forum, under prompting from QCA have agreed that the stretching of UMS between the grade A boundary and the maximum mark means it is harder for candidates to score uniform marks once their raw mark is above the grade A threshold. An adjustment has been made so that the maximum UMS mark is achieved by scoring twice the mark range between the A and B grade above that of the grade A boundary.

Thus the example for 6671 Pure Mathematics P1 has candidates achieving a raw mark of 71 or more scoring a maximum 100 UMS (i.e. $57 + 2(71 - 50) = 71$).

The change to the UMS in June 2001 was communicated to centres at the time results were issued with the following statement:

“The UMS has been very effective in giving centres a clear picture of progress during the course. In conjunction with the regulatory bodies, the awarding bodies have considered ways in which it can be made even more effective. It has been agreed therefore that, with effect from the outcomes of the 1998 Summer module tests, the system for converting raw marks to UMS scores for high raw marks should be slightly modified. The modification ensures that the ‘rate of exchange’ between raw marks and uniform marks is closer at all grades.”

Core Mathematics Module C1 (6663) (rm = raw mark)			
rm	UMS	rm	UMS
75	100	35	49
74	100	34	47
73	100	33	46
72	100	32	44
71	100	31	43
70	99	30	41
69	97	29	40 E
68	96	28	39
67	94	27	37
66	93	26	36
65	91	25	34
64	90	24	33
63	89	23	32
62	87	22	30
61	86	21	29
60	84	20	28
59	83	19	26
58	81	18	25
57	80 A	17	23
56	79	16	22
55	77	15	21
54	76	14	19
53	74	13	18
52	73	12	17
51	71	11	15
50	70 B	10	14
49	69	9	12
48	67	8	11
47	66	7	10
46	64	6	8
45	63	5	7
44	61	4	6
43	60 C	3	4
42	59	2	3
41	57	1	1
40	56		
39	54		
38	53		
37	51		
36	50 D		

UMS Ready Reckoner – GCE Mathematics June 2007

UMS	C1	C2	C3	C4	FP1	FP2	FP3	M1	M2	M3	M4	M5	S1	S2	S3	S4	D1	D2	
100	75	75	73-75	74-75	75	67-75	66-75	75	72-75	75	71-75	75	72-75	75	75	75	65-75	75	
99	74	74	72	73		66			71		70	74	71				64		
98		73		72	74	65	65	74		74				74	74	74		74	
97	73		71		73		64		70		69	73	70	73	73		63		
96	72	72	70	71		64		73	69	73	68	72	69			73	62	73	
95	71	71		70	72	63	63							72	72	72			
94		70	69	69		62			68	72	67	71	68		71		61	72	
93	70	69	68	68	71	61	62	72	67		66	70	67	71		71	60		
92	69				70		61			71				70	70			71	
91	68	68	67	67		60		71	66		65	69	66		69	70	59		
90		67	66	66	69	59	60		65	70	64	68	65	69			58	70	
89	67	66	65	65		58		70	64		63	67	64		68	69	57		
88	66	65		64	68	57	59			69				68	67			69	
87	65		64		67		58	69	63		62	66	63	67		68	56		
86		64	63	63		56			62	68	61	65	62		66		55	68	
85	64	63		62	66	55	57							66	65	67			
84	64	62	62	61		54		68	61	67	60	64	61			66	54	67	
83	62	61	61	60	65	53	56		60		59	63	60	65	64		53		
82					64		55	67		66				64	63	65		66	
81	61	60	60	59		52			59		58	62	59				52		
A	80	60	59	59	58	63	51	54	66	58	65	57	61	58	63	62	64	51	65
	79	59	58	58	57	62	50		65	57	64	56	60	57	62	61	63	50	64
	78	58	57		56	61	49	53	64		63		59		61	60	62		63
	77		56	57				52	63	56		55		56				49	
	76	57	55	56	55	60	48		62	55	62	54	58	55	60	59	61	48	62
	75	56			54	59	47	51			61		57		59	58	60		61
	74	55	54	55	53	58	46		61	54	60	53	56	54	58	57	59	47	60
	73	54	53	54	52	57	45	50	60	53	59	52	55	53	57	56	58	46	59
	72		52					49	59										
	71	53	51	53	51	56	44		58	52	58	51	54	52	56	55	57	45	58
B	70	52	50	52	50	55	43	48	57	51	57	50	53	51	55	54	56	44	57
	69	51	49	51	49	54	42		56	50	56	49	52	50	54	53	55	43	56
	68	50	48					47	55		55		51				54		55
	67			50	48	53	41	46	54	49		48		49	53	52		42	
	66	49	47	49	47	52	40		53	48	54	47	50	48	52	51	53	54	54
	65	48	46					45			53		49				52		53
	64	47	45	48	46	51	39		52	47	52	46	48	47	51	50	51	40	52
	63	46	44	47	45	50	38	44	51	46	51	45		46	50	49	50	39	51
	62							43	50				47						
	61	45	43	46	44	49	37		49	45	50	44	46	45	49	48	49	38	50
C	60	44	42	45	43	48	36	42	48	44	49	43	45	44	48	47	48	37	49
	59	43	41		42	47	35		47	43	48	42	44	43	47	46	47	36	48
	58		40	44				41	46				43		46		46		47
	57	42		43	41	46	34	40	45	42	47	41		42		45	4	35	
	56	41	39		40	45	33		44	41	46	40	42	41	45	44	45	34	46
	55		38	42				39					41				44		45
	54	40	37		39	44	32		43	40	45	39	40	40	44	43	43	33	44

	UMS	C1	C2	C3	C4	FP1	FP2	FP3	M1	M2	M3	M4	M5	S1	S2	S3	S4	D1	D2
	53	39	36	41	38	43	31	38	42	39	44	38	39	39	43	42	42	32	43
	52			40				37	41										
	51	38	35		37	42	30		40	38	43	37	38	38	42	41	41	31	42
D	50	37	34	39	36	41	29	36	39	37	42	36	37	37	41	40	40	30	41
	49	36	33		35	40	28		38		41		36	36	40	39	39	29	40
	48		32	38				35	37	36		35	35						
	47	35		37	34	39	27	34	36	35	40	24		35	39	38	38	28	39
	46	34	31		33	38	26		35		39		34	34	38	37	37	27	38
	45		30	36				33		34		33	33						
	44	33	29		32	37	25		34		38		32	33	37	36	36	26	37
	43	32	28	35	31	36	24	32	33	33	37	32	31	32	36	35	35	25	36
	42			34				31	32	32		31				34			
	41	31	27		30	35	23		31		36		30	31	35	33	34	24	35
E	40	30	26	33	29	34	22	30	30	31	35	30	29	30	34	32	33	23	34
	39	29	25		28	33	21		29		34		28	29	33		32	22	33
	38		24	32				29	28	30		29	27			31			
	37	28		31	27	32	20	28	27	29	33	28		28	32		31	21	32
	36	27	23		26	31	19		26		32		26	27	31	30	30	20	31
	35		22	30				27		28		27	25						
	34	26	21		25	30	18		24		31		24	26	30	29	29	19	30
	33	25	20	29	24	29	17	26	24	27	30	26	23	25	29	28	28	18	29
	32			28				25	23	26		25							
	31	24	19		23	28	16		22		29		22	24	28	27	27	17	28
N	30	23	18	27	22	27	15	24	21	25	28	24	21	23	27	26	26	16	27
	29	22		26	21	26		23	20	24	27	23	20	22	26	25	25		26
	28		17	25		25	14	22		23	26	22			25	24	24	15	25
	27	21	16	24	20	24			19		25		19	21	24	23	23		24
	26	20		23	19	23	13	21	18	22	24	21	18	20	23			14	23
	25	19	15		18			20		21	23	20		19		22	22		22
	24			22		22	12	19	17	20	22	19	17		22	21	21	13	21
	23	18	14	21	17	21		18	16	19	21	18	16	18	21	20	20	12	
	22	17	13	20	16	20	11			18				17	20	19	19		20
	21	16		19		19		17	15		20	17	15	16	19	18	18	11	19
	20	15	12	18	15	18	10	16	14	17	19	16	14	15	18	17	17		18
	19			17	14	17		15	13	16	18	15	13		17			10	17
	18	14	11	16	13	16	9	14		15	17	14		14	16	16	16		16
	17	13	10	15		15			12	14	16		12	13	15	15	15	9	15
	16	12		14	12	14	8	13	11	13	15	13	11	12	14	14	14		14
	15		9		11			12			14	12				13	13	8	
	14	11		13	10	13	7	11	10	12	13	11	10	11	13	12	12		13
	13	10	8	12		12		10	9	11	12	10	9	10	12	11	11	7	12
	12	9	7	11	9	11	6			10	11			9	11	10	10		11
	11			10	8	10		9	8	9	10	9	8		10			6	10
	10	8	6	9	7	9	5	8	7	8	9	8	7	8	9	9	9		9
	9	7		8		8		7	6		8	7	6	7	8	8	8	5	8
	8	6	5	7	6	7	4	6		7	7	6		6	7	7	7	4	7
	7	5	4	6	5	6			5	6			5	5	6	6	6		6
	6			5		5	3	5	4	5	6	5	4		5	5	5	3	
	5	4	3		4			4		4	5	4		4			4		5

UMS	C1	C2	C3	C4	FP1	FP2	FP3	M1	M2	M3	M4	M5	S1	S2	S3	S4	D1	D2
4	3		4	3	4	2	3	3	3	4	3	3	3	4	4		2	4
3	2	2	3	2	3		2	2		3	2	2	2	3	3	3		3
2		1	2		2	1			2	2				2	2	2	1	2
1	1		1	1	1		1	1	1	1	1	1	1	1	1	1		1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0