

GCSE Mathematics (1MA1) – Achieving a Grade 1 2F

Student-friendly mark scheme

Please note that this mark scheme is not the one used by examiners for making scripts. It is intended more as a guide to good practice, indicating where marks are given for correct answers. As such, it doesn't show follow-through marks (marks that are awarded despite errors being made) or special cases.

It should also be noted that for many questions, there may be alternative methods of finding correct solutions that are not shown here – they will be covered in the formal mark scheme.

NOTES ON MARKING PRINCIPLES

Guidance on the use of codes within this mark scheme

M1 – method mark. This mark is generally given for an appropriate method in the context of the question. This mark is given for showing your working and may be awarded even if working is incorrect.

P1 – process mark. This mark is generally given for setting up an appropriate process to find a solution in the context of the question.

A1 – accuracy mark. This mark is generally given for a correct answer following correct working.

B1 – working mark. This mark is usually given when working and the answer cannot easily be separated.

C1 – communication mark. This mark is given for explaining your answer or giving a conclusion in context supported by your working.

Some questions require all working to be shown; in such questions, no marks will be given for an answer with no working (even if it is a correct answer).

Question 1 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
	45×7	M1	This mark is given for a method to find the cost of hiring a van for 7 days
	315	A1	This mark is given for the correct answer only

Question 2 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	-7, -2, -1, 0, 7	B1	This mark is given for the correct answer only

Question 3 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	-11, -7, -2, 3, 8, 10	B1	This mark is given for the correct answer (accept numbers in reverse order)

Question 4 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	For example: 125 or 250	B1	This mark is given for a correct 3-digit answer ending in 0 or 5

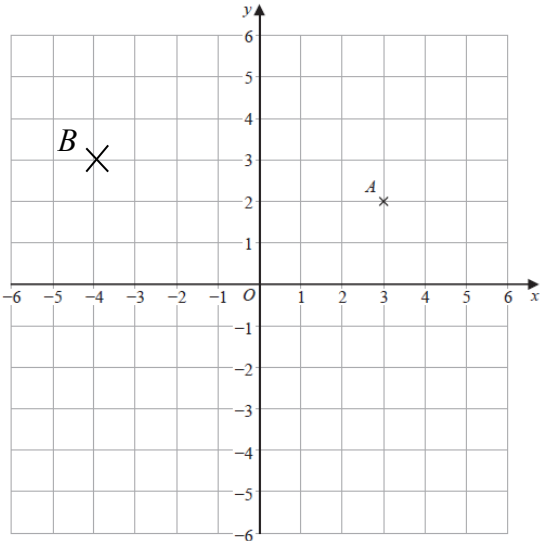
Question 5 (Total 3 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes												
Frequen	<table border="1"> <caption>Bar Chart Data</caption> <thead> <tr> <th>Day</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Mon</td> <td>9</td> </tr> <tr> <td>Tue</td> <td>10</td> </tr> <tr> <td>Wed</td> <td>8</td> </tr> <tr> <td>Thu</td> <td>6</td> </tr> <tr> <td>Fri</td> <td>3</td> </tr> </tbody> </table>	Day	Frequency	Mon	9	Tue	10	Wed	8	Thu	6	Fri	3	M1	This mark is given for days labelled or a linear scale
		Day	Frequency												
		Mon	9												
Tue	10														
Wed	8														
Thu	6														
Fri	3														
M1	This mark is given for correct bars showing information for at least 3 days														
A1	This mark is given for a fully correct bar chart including labelled y axis (Frequency or Total)														

Question 6 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	$\frac{37}{100}$	B1	This mark is given for a correct answer only

Question 7 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
(a)	(3, 2)	B1	This mark is given for the correct answer only
(b)		B1	This mark is given for the correct answer only

Question 8 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	1480	B1	This mark is given for the correct answer only

Question 9 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	$(28 \div 7) + 5 = 9$	B1	This mark is given for the correct answer only

Question 10 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	3	B1	This mark is given for the correct answer only

Question 11 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
	$7c + 6d$	M1	This mark is given for either $7c$ or $6d$ seen
		A1	This mark is given for the correct answer only

Question 12 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	$>$	B1	This mark is given for the correct answer only

Question 13 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	40	B1	This mark is given for the correct answer only

Question 14 (Total 3 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
	$1428 - 150 = 1278$	P1	This mark is given for a process to find the cost of six monthly payments
	$1278 \div 6$	A1	This mark is given for a process to find the cost of one monthly payment
	213	A1	This mark is given for the correct answer only

Question 15 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	13	B1	This mark is given for the correct answer only

Question 16 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
(a)	08 09 – 07 20	M1	This mark is given for a method to find the number of minutes between 07 20 and 08 09
	49	A1	This mark is given for the correct answer only

Question 17 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	=	B1	This mark is given for the correct answer only

Question 18 (Total 2 marks)

	Working or answer an examiner might expect to see	Mark	Notes
	10 : 56	M1	This mark is given for one or both of 10 or 56 identified
		A1	This mark is given for the correct answer only (or equivalent, e.g. 5 : 28)

Question 19 (Total 1 mark)

Part	Working or answer an examiner might expect to see	Mark	Notes
	4.5 cm	B1	This mark is given for an answer in the range 4.3 to 4.7 cm

Question 20 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
	For example: $\frac{3}{8} = \frac{24}{64}, \quad \frac{9}{32} = \frac{18}{64}, \quad \frac{1}{4} = \frac{16}{64}, \quad \frac{21}{64}$	M1	This mark is given for a method to represent the fractions with a common denominator
	$\frac{1}{4}, \frac{9}{32}, \frac{21}{64}, \frac{3}{8}$	A1	This mark is given for the correct answer only

1MA1 – Aiming for Grade 1 2F
Edexcel averages: mean scores of students who achieved grade

Qn	Skill tested	Mean score	Max score	Mean %	ALL	5	4	3	2	1	U
1	Substitute values into formulae and expressions	1.97	2	99	1.97	1.99	1.99	1.98	1.97	1.92	1.57
2	Order numbers	0.98	1	98	0.98	0.99	0.99	0.98	0.97	0.92	0.76
3	Order numbers	0.96	1	96	0.96	0.99	0.99	0.98	0.97	0.90	0.64
4	Primes, factors, multiples	0.93	1	93	0.93	0.99	0.98	0.96	0.94	0.84	0.53
5	Bar charts	2.80	3	93	2.80	2.91	2.90	2.84	2.73	2.52	2.01
6	Percentages	0.95	1	95	0.95	0.98	0.98	0.97	0.93	0.83	0.55
7	Coordinates in all four quadrants	0.91	1	91	0.91	0.99	0.98	0.95	0.89	0.75	0.48
		0.85	1	85	0.85	0.95	0.93	0.88	0.82	0.70	0.46
8	Rounding	0.86	1	86	0.86	0.97	0.94	0.90	0.83	0.69	0.44
9	Substitute values into formulae and expressions	0.86	1	86	0.86	0.97	0.95	0.92	0.85	0.64	0.28
10	Mode	0.81	1	81	0.81	0.96	0.91	0.84	0.76	0.62	0.39
11	Simplify algebraic expressions	1.62	2	81	1.62	1.92	1.80	1.66	1.48	1.22	0.70
12	Order numbers	0.77	1	77	0.77	0.95	0.89	0.79	0.69	0.58	0.40
13	Decimals to percentages	0.84	1	84	0.84	0.99	0.96	0.89	0.76	0.57	0.35
14	Apply four operations	2.52	3	84	2.52	2.93	2.86	2.72	2.43	1.70	0.65
15	Primes, factors, multiples	0.77	1	77	0.77	0.89	0.84	0.79	0.71	0.56	0.38
16	Time	1.61	2	81	1.61	1.84	1.78	1.67	1.46	1.10	0.71
17	Order numbers	0.81	1	81	0.81	0.96	0.93	0.87	0.74	0.53	0.27
18	Ratio in real context	1.57	2	79	1.57	1.91	1.83	1.67	1.42	1.02	0.58
19	Length	0.75	1	75	0.75	0.89	0.84	0.77	0.69	0.50	0.35
20	Fractions in size order	1.50	2	75	1.50	1.95	1.78	1.54	1.27	1.00	0.71
		25.64	30.00	88	25.64	28.92	28.05	26.57	24.31	20.11	13.21