



Pearson
Edexcel

Mark Scheme (Results)

January 2023

Pearson Edexcel Awards
In Number and Measure (ANM10) Paper 1B

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NOTES ON MARKING PRINCIPLES

1 **Types of mark**

M marks: method marks

A marks: accuracy marks

B marks: unconditional accuracy marks (independent of M marks)

2 **Abbreviations**

cao – correct answer only

isw – ignore subsequent working

oe – or equivalent (and appropriate)

indep - independent

ft – follow through

SC: special case

dep – dependent

3 **No working**

If no working is shown then correct answers normally score full marks

If no working is shown then incorrect (even though nearly correct) answers score no marks.

4 **With working**

If there is a wrong answer indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.

If it is clear from the working that the “correct” answer has been obtained from incorrect working, award 0 marks. Send the response to review, and discuss each of these situations with your Team Leader.

If there is no answer on the answer line then check the working for an obvious answer.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks. Discuss each of these situations with your Team Leader.

If there is a choice of methods shown, then no marks should be awarded, unless the answer on the answer line makes clear the method that has been used.

5 Follow through marks

Follow through marks which involve a single stage calculation can be awarded without working since you can check the answer yourself, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

6 Ignoring subsequent work

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question: e.g. incorrect cancelling of a fraction that would otherwise be correct

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect e.g. algebra.

Transcription errors occur when candidates present a correct answer in working, and write it incorrectly on the answer line; mark the correct answer.

7 Parts of questions

Unless allowed by the mark scheme, the marks allocated to one part of the question CANNOT be awarded in another.

8 Use of ranges for answers

If an answer is within a range this is inclusive, unless otherwise stated.

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Question	Working	Answer	Mark	Notes	
1	(a)		560	1	B1 cao
	(b)		750	1	B1 cao
	(c)		35	1	B1 cao
	(d)		7100	1	B1 cao
	(e)		e.g. 8, 16, 24, etc.	1	B1 any multiple of 8 (or more than one multiple of 8 but no incorrect values)
	(f)		1 or 2 or 3 or 4 or 6 or 12	1	B1 any factor of 12 (or more than one factor of 12 but no incorrect values)
2	(a)		5%, 27%, 55%, 57%, 75%	1	B1 with or without % signs
	(b)		0.07, 0.68, 0.7, 0.74, 0.8	1	B1 may have additional zeros at the end of the number
	(c)		£0.67, 88p, £3.84, 543p, £7.32	1	B1 may be in units given or changed to pence/pounds – all acceptable
3			B or £4.00	1	B1 may be stated on answer line or clearly indicated in list

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Question		Working	Answer	Mark	Notes
4	(a)		line of 8 cm	1	B1 use overlay and allow in range 7.8 cm – 8.2 cm
	(b)		50	1	B1 allow answers in range 48 – 52
5	(a)		3	1	B1 for 3 or +3
	(b)		-1	1	B1 for -1 or 'minus 1'

Question	Working	Answer	Mark	Notes																				
6	(a) $\begin{array}{r} 4371 \\ 254 \\ \underline{47} \\ 4672 \\ \underline{11} \end{array}$	4672	2	M1 for correctly putting numbers in columns (may be 2 separate sums) and adding all 3 numbers – may be indicated by a 2 in the units column and a carry of 1 into the tens column or for addition of all 3 numbers with just 1 error or for 3 out of the 4 figures of 4672 correct A1 cao																				
	(b) $\begin{array}{r} 627 \\ \underline{4} \times \\ 251028 \end{array}$ <table border="1" data-bbox="378 643 775 796"> <tr> <td></td> <td>6</td> <td>2</td> <td>7</td> <td>×</td> </tr> <tr> <td></td> <td>2</td> <td>0</td> <td>2</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>8</td> <td>8</td> <td></td> </tr> <tr> <td>2</td> <td>5</td> <td>0</td> <td>8</td> <td></td> </tr> </table> $\begin{array}{r} 4 \times 600 = 2400 \\ 4 \times 20 = 80 \\ 4 \times 7 = 28 + \\ \underline{\quad\quad} \\ 2508 \end{array}$		6	2	7	×		2	0	2	4			8	8		2	5	0	8		2508	2	M1 for 28 with a 8 in the units column and a 2 carried to the 10's column or a correct multiplication with one error only or correct multiplications for box method condoning one multiplication error or correct partitioning – allow one multiplication error or adding 4 lots of 627 – may be indicated by listing 4 lots of 627 correctly in columns with an 8 in the units column oe A1cao
	6	2	7	×																				
	2	0	2	4																				
		8	8																					
2	5	0	8																					
	(c) $\begin{array}{r} \underline{64.13} \\ \underline{12.4} \\ \underline{51.73} \end{array}$	51.73	2	M1 for correctly putting numbers in columns with evidence of decomposition to subtract the 4 tenths in 12.4 – may be indicated by 7 in the tenths column or for crossing through of 4 in 64 and a 1 by the side of the 1 in 64.13 A1 cao																				

Question	Working	Answer	Mark	Notes
7	(a)	$\frac{7}{10}$	1	B1 oe
	(b)	e.g. $\frac{4}{18}$	1	B1 any fraction equal to $\frac{2}{9}$ eg $\frac{4}{18}, \frac{6}{27}, \frac{20}{90}$, etc.
	(c)	$\frac{3}{4}$	1	B1 cao
	(d)	$\frac{5}{23}$	1	B1 oe e.g. $\frac{115}{529}$
8	(a)	millilitres	1	B1 for a metric unit of volume e.g. millilitres (ml), centilitres (cl) or litres (l)
	(b)	feet	1	B1 for feet, yards or inches
9	(a)	32	2	M1 for $2 \times 6 + 2 \times 10$ oe or for adding two or more sides eg for $6 + 10$ A1 cao
	(b)	60	2	M1 for 6×10 A1 cao SCB1 for answers of (a) 60 and (b) 32

