Mark Scheme (Results)

Summer 2022

Pearson Edexcel Level 1 Award
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	ft – follow through
isw – ignore subsequent working	SC: special case
oe – or equivalent (and appropriate)	dep – dependent
indep - independent	

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

PAPER: ANM10_1B					
Question		**Working**	**Answer**	**Mark**	**Notes**
1	(a)		A line 5 cm long	1	B1 use overlay
	(b)		65	1	B1 allow 63 - 67
2	(a)		6	1	B1 cao
	(b)		2500	1	B1 cao
3	(a)		9%, 16%, 32%, 81%, 84%	1	B1 % may or may not be present
	(b)		0.07, 0.1, 0.16, 0.2, 0.27	1	B1 0.07, 0.1(0), 0.16, 0.2(0), 0.27
	(c)		83p £4.23, 487p, £5.84, 732p	1	B1 may be in £ or p or a mixture as long as meaning is clear.
4	(a)		metres	1	B1 for a metric unit of length e.g. metres or centimetres or an abbreviation for metres or centimetres but do not allow m
	(b)		miles	1	B1 for an imperial unit of length
5	(a)		970	1	B1 cao
	(b)		7	1	B1 cao

Question	Working	Answer	Mark	Notes
6 (a)		1 50 pm	2	B2 for fully correct time that incorporates pm e.g. 1 50 pm or in 24 hour format e.g. 13 50 or ten to two in the afternoon oe (B1 for 1 50 am or 1 50 or 1 xx pm or x 50pm or 13 xx or xx 50 that is a time in the afternoon in 24 hour format eg1450 oe)
(b)		16 50	2	B2 for 16 50 or 4 50 oe (B1 for 16 xx or for 4 xx or for xx 50 or for 4 50am oe)
7 (a)	2358 161 43 2562 1 1	2562	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 one error only A1 cao
(b)	854 6 × 51₃2₂4 box method: 8 × 800 = 4800 (6 × 800 = 4800) 6 × 50 = 300 6 × 4 = 24 + 5124	5124	2	M1 for 24 with a 4 in the units column and a 2 carried to the tens column or a correct multiplication with one error only or correct multiplications for box method condoning one multiplication error or adding 6 lots of 854 with one error only A1cao

In (b) working the box method grid:

8	5	4	×
4/8	3/0	2/4	6
51	2	4	

$6 \times 800 = 4800$
$6 \times 50 = 300$
$6 \times 4 = 24$ +
  5124

PAPER: ANM10_1B				
Question	Working	Answer	Mark	Notes
(c)	_ 5.71 2.9 2.81	2.81	2	M1 for correctly putting numbers in columns with 1 (from the 5.71) in hundredths column and with method to subtract the tenths – may be indicated by 8 in the tenths column or for crossing through of 5 and a 1 by the side of the 7 A1 cao
8 (a)		$\dfrac{7}{15}$	1	B1 cao
(b)		$\dfrac{9}{10}$	1	B1 cao
(c)		eg $\dfrac{10}{12}$	1	B1oe eg $\dfrac{15}{18}$, $\dfrac{20}{24}$, $\dfrac{50}{60}$ etc
(d)		$\dfrac{8}{19}$	1	B1 oe eg $\dfrac{152}{361}$
9		B or £160	1	B1 may be on answer line or indicated on list

PAPER: ANM10_1B				
Question	Working	Answer	Mark	Notes
10		28	2	M1 for $2 \times 9 + 2 \times 5$ oe or for adding two or three sides of the rectangle eg for $9 + 5$ (=14) A1
11 (a)		−3	1	B1 cao
(b)		−4	1	B1 cao