Mark Scheme (Results)

January 2021

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

Question	Working	Answer	Mark	Notes
1 (a)	674 126 <u> 43</u> 843	843	2	M1 for correctly putting numbers in columns (may be 2 separate sums) and adding all 3 numbers – may be indicated by a 3 in the units column and a carry of 1 into the tens column or addition with one error only or 2 of the 3 digits of 843 correct A1 cao
(b)	56.0 <u>23.7</u> 32.3	32.3	2	M1 for correctly putting numbers in columns with method to subtract the tenths – may be indicated by 3 in the tenths column or crossing through of the 6 in 56 and a 1 by the side of the 0 in 56.0 or for an answer including __.3 A1 cao
(c)	283 <u> 7</u> × 19₅8₂1 (box method grid) 7 × 200 = 1400 7 × 80 = 560 <u>7 × 3 = 21</u> + 1981	1981	2	M1 for complete structured method to multiply by 7, condone one multiplication error or correct multiplications for box method condoning one multiplication error or for adding 7 lots of 283 with one error only A1

Box method grid:

2	8	3	×
1 / 4	5 / 6	2 / 1	7
19	8	1	

PAPER: ANM10_1B				
Question	Working	Answer	Mark	Notes
2 (a)		89 000	1	B1 cao
(b)		56	1	B1 cao
(c)		615	1	B1 cao
3 (a)		9, 16, 342, 796, 983	1	B1 cao numbers in correct order
(b)		6%, 18%, 75%, 78%, 99%	1	B1 cao percentages in correct order – with or without %
(c)		8.09, 8.4, 8.44, 9.32, 9.9	1	B1 cao decimals in correct order
(d)		$\dfrac{1}{4}, \dfrac{2}{6}, \dfrac{5}{12}, \dfrac{1}{2}$	1	B1 oe fractions in correct order
4 (a)		$\dfrac{7}{10}$	1	B1 oe
(bi)		$\dfrac{1}{6}$ and $\dfrac{2}{12}$	1	B1 cao
(bii)		$\dfrac{7}{12}$	1	B1 oe
(biii)		$\dfrac{3}{4}$		B1 cao

PAPER: ANM10_1B				
Question	Working	Answer	Mark	Notes
5 (a)		125	1	B1 for an answer in the range 123 – 127
(b)		Correct line	1	B1 for a line measuring 9.8 cm – 10.2 cm – use overlay
6		D or £80	1	B1 for D or £80 (may be indicated in list)
7 (a)		13 32	1	B1 or 1.32 pm
(b)		08 49	1	B1 allow 8 49
(c)		43	1	B1 cao
(d)		11 04	1	B1 cao
8 (a)(i)		3	1	B1 cao
(a)(ii)		−1	1	B1 cao
(b)			1	B1 cao
9 (a)		gram	1	B1 for gram(me)s, g
(b)		feet	1	B1 for feet or foot or ft, inches or in(s) or yards
(c)		432	1	B1