Mark Scheme (Results)

January 2014

Pearson Edexcel Level 1 Award
In Number and Measure (ANM10)
Paper 1A+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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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.

Section A

PAPER: ANM10_1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
1	(a)		14	1	B1 cao
	(b)		3	1	B1 cao
	(c)		Ben and Eric	1	B1 in either order
	(d)		Carla	1	B1 cao
2	(a)		–4	1	B1 cao
	(b)		8 shown	1	B1 cao
3	(a)		4.69	1	B1 cao
	(b)		56.375	1	B1 cao
	(c)		4.6875	1	B1 cao
4	(a)		Time	1	B1 for correct time shown on the clock
	(b)	15 05 08 20 – 06 45 40 minutes to 9 o'clock 1 hour to get to 10am 5 hours to get to 3pm 5 minutes to get to 5 past	6 hours 45 mins Or 405 minutes	2	M1 for attempt to subtract 08 20 from 15 05 oe using 60 minutes in an hour. A1 oe **or** M1 for counting on correctly from 08 20 getting to at least 10 00 or 5 minutes identified from 3 pm to 3:05 pm A1 oe

PAPER: ANM10_1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
5	(a)		180	1	B1 cao
	(b)		3.5	1	B1 cao
	(c)		8	1	B1 cao
6			£10.60	4	M1 for $2 \times 2.95 + 0.95 + 3 \times 0.85$ (=9.40) M1 for $20 - "(2 \times 2.95 + 0.95 + 3 \times 0.8)"$ A1 for 10.6 oe B1 for their answer written correctly as sum of money e.g. 1060p or £10.60 SC B2 for £15.25 SC B1 for £14.75
7	(a)		5.83g	1	B1 for 5.83
	(b)		2.7kg	1	B1 for 2.7
				1	B1 for units correct in (a) or (b)
8	(a)		07 08 or 07 17	1	B1
	(b)		09 56	1	B1 cao
9	(a)		11 or 19	1	B1 for 11 or 19
	(b)		6 or 8 or 12 or 24	1	B1 for 6 or 8 or 12 or 24
	(c)		12 or 24 or 36 or 48	1	B1 for 12 or 24 or 36 or 48

PAPER: ANM10_1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
10	(a)		45	2	M1 for $60 \div 4$ or 60×3 A1 cao
	(b)	$\dfrac{40}{100} \times 80$	32	2	M1 for $\dfrac{40}{100} \times 80$ or 10% of 80 is 8 A1 cao
11	(a)		Correct order	1	B1 for 23,29,39,60,62
	(b)		Correct order	2	M1 for correct attempt to change one of the decimals to a percentage or one of the percentages to a decimal or for 3 numbers of the four numbers in the correct order A1 for 25%, 0.4, 60%, 0.75 oe
12			105	4	M1 for 15×5 ($= 75$) M1 for 5×6 (=30) M1 for "75 + "30" A1 cao
13		$\dfrac{3}{100} \times 500$	15	2	M1 for $\dfrac{3}{100} \times 500$ oe A1 cao
14	(a)		Correct line	1	B1 for line of length 12 ± 2mm
	(b)		65	1	B1 for answer in range 63 – 67
15			60 cm^3	3	M1 for $6 \times 5 \times 2$ oe A1 for 60 B1 for cm^3

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
16			3	1	B1 cao
17		$120 \times 5p = 600p$ $500 \times 10p = 5000p$	£56	4	M1 for 120×5 (= 600) M1 for 500×10 (= 5000) M1 for "600" + "5000" A1 for £56 oe

PAPER: ANM10_1B				
Question	**Working**	**Answer**	**Mark**	**Notes**
1 (a)		5	1	B1 cao
(b)	3 + 5 + 7 + 2 + 5	22	2	M1 for 3 + 5 + 7 + 2 + 5 or two frequencies correct A1 cao
2 (a)	56 <u>84 +</u>	140	2	M1 for correctly putting numbers into columns and carry taking place into tens column, maybe indicated by 4 in tens column A1 cao
(b)	5.95 <u>2.83 −</u> 3.12	3.12	2	M1 for correctly putting numbers in column with attempt to subtract maybe indicated by 2 in hundredths column A1 cao
(c)	68 <u>5 ×</u> 340 $\begin{array}{\|c\|c\|c\|} \hline \times & 60 & 8 \\ \hline 5 & 300 & 40 \\ \hline \end{array}$ 3000 + 400 + 5 = 3405	34.0	2	M1 for correct structure to carry out a multiplication condone one multiplication error A1 for 34 oe **SC** B1 for 30.4(0)
(d)	$8\overline{)22^{6}4}$ 2 8	28	2	M1 for correct structure to carry out a division maybe indicated by a remainder of 6 seen from 22 ÷ 8 A1 cao

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
3			28	2	M1 for attempt to add any two lengths e.g. 10 + 4 or 10 + 10 or 4 + 4 A1 cao
4	(a)		Metres or feet	1	B1 accept yards
	(b)		Pounds or kilograms	1	B1 accept grams or ounces
5	(a)		2500	1	B1 cao
	(b)		8	1	B1 cao
	(c)		680	1	B1 cao
6	(a)		–1	1	B1 cao
	(b)		3	1	B1 cao
7	(a)		Calendar completed	1	B1 for calendar completed correctly up to 30th June only
	(b)		Saturday 4th July	2	B1 for Saturday B1 ft from their calendar

PAPER: ANM10_1B					
Question		**Working**	**Answer**	**Mark**	**Notes**
8	(a)		$\dfrac{3}{4}$	1	B1 for $\dfrac{15}{20}$ oe
	(b)		$\dfrac{1}{3}$	1	B1 cao
	(c)		$\dfrac{1}{2}$	1	B1 oe
	(d)		0.75	1	B1 cao
	(e)		$\dfrac{4}{6}$	1	B1 oe
	(f)		$\dfrac{4}{10}$	1	B1 oe
9			$\dfrac{7}{9}$	1	B1 oe