

Mark Scheme (Results)

Summer 2014

Pearson Edexcel Level 1 Award  
in Number and Measure (ANM10)  
Paper 1A + 1B

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Summer 2014

Publications Code EA039778

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## NOTES ON MARKING PRINCIPLES

- 1 All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- 2 Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- 3 All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- 4 Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- 5 Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

### 7 **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.

**8 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 canceling 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.

**9 Parts of questions**

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

**10 Use of ranges for answers**

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

**Guidance on the use of codes within this mark scheme**

M1 – method mark

A1 – accuracy mark

B1 – Working mark

QWC – quality of written communication

oe – or equivalent

cao – correct answer only

ft – follow through

sc – special case

dep – dependent (on a previous mark or conclusion)

indep – independent

isw – ignore subsequent working

## Section A

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
1	(a)		12	1	B1 cao
	(b)		38 shown	1	B1 cao
2		$6 + 4 + 6 + 4$	20	2	M1 for attempt to add at least one length and one width e.g. $6 + 4$ or answer of 10 or attempt to add their 4 dimensions A1 cao
3	(a)		0940	1	B1 cao
	(b)		1027	1	B1 cao
	(c)	1210 – 1117  <b>Or</b> 1117 to 1200 is 43 mins 1200 to 1210 is 10 mins	53	2	M1 for 1210 – 1117 identified A1 cao <b>Or</b> M1 for 1117 to 1200 is 43 mins or 1200 to 1210 is 10 mins or 1117 to 1130 is 13 minutes A1 cao
4	(a)(i)		29.52	1	B1 oe
	(ii)		3.24	1	B1oe
	(iii)		65.1	1	B1oe
	(b)		7.3	1	B1 cao

PAPER: ANM10_1A				
Question	Working	Answer	Mark	Notes
5	$2 \times 85p = \text{£}1.70$ $1 \times \text{£}2.75 = \text{£}2.75$ $1 \times \text{£}1.95 = \text{£}1.95$ $2 \times 45p = \underline{\text{£}0.90}$ $\text{£}7.30$ $\text{£}10 - \text{£}7.30$	2.70	4	M1 for showing the intention to work out one of $2 \times 85p$ or $2 \times 45p$ or 170 or 90 M1 for adding the 4 types of items M1 for showing the intention to subtract their total from £10 A1 cao  SC B2 for £4
6	(a) $200 \div 5 \times 3$	120	2	M1 for $200 \div 5 (= 40)$ or $200 \times 3 (= 600)$ A1 cao
	(b) $\frac{25}{100} \times 60$	15	2	M1 for $\frac{25}{100} \times 60$ or $6 + 6 + 3$ or $60 \div 4$ oe A1 cao
7	(a)	8 20 am or 08 20	2	B2 for fully correct time that incorporates am or pm e.g. 8 20 am or in 24 hour format e.g. 08 20 or twenty past 8 in the morning or 0820 or 08:20  (B1 for incomplete time e.g. 8 20 or twenty past 8 or 8 20 pm or 16 20 or twenty past 8 in the evening)
	(b) $3\frac{1}{2} \times 60$	210	2	M1 for $3\frac{1}{2} \times 60$ or $3.5 \times 60$ or $60 + 60 + 60 + 30$ oe A1 cao
8	$\frac{4}{100} \times 200$	8	2	M1 for $\frac{4}{100} \times 200$ oe e.g. $4 \times 2$ A1 cao



PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
9	(a)		2500	1	B1 cao
	(b)	$\begin{array}{r} 2\text{m } 40\text{ cm} \quad 8\text{ m } 15\text{ cm} \\ \underline{5\text{ m } 75\text{ cm}} + \quad \underline{3\text{ m } 80\text{ cm}} - \\ 8\text{m } 15\text{ cm} \\ \text{Or} \\ 240 + 575 - 380 \end{array}$	4 m 35 cm	2	<p>M1 for method to show <math>2 + 5 - 3 (= 4)</math> or <math>40 + 75 - 80 (= 35)</math> or total including 15 cm or for attempt to subtract 3 m 80 cm from their total with decomposition to allow subtraction of 8</p> <p>A1 for 4 m 35 cm or 4.35m or 435 cm</p> <p><b>Or</b></p> <p>M1 for writing all measurements into cm and attempt to add 240 and 575 or sight of total of 815 or attempt to subtract 380 from their total with decomposition to allow subtraction of 8</p> <p>A1 for 4 m 35 cm or 4.35m or 435 cm</p> <p>SC B1 for 435 or 4.35</p>
10	(a)		4	1	B1 cao
	(b)		Silver	1	B1 cao
	(c)	$5 + 4 + 2 + 4 + 7$	22	2	<p>M1 for attempting to add the five frequencies for all the cars e.g. <math>5 + 4 + 2 + 4 + 7</math> condone one error in frequencies</p> <p>A1 cao</p>
11	(a)		9 cm	2	<p>B 1 for 9 or 90</p> <p>B1 for cm or mm</p>
	(b)		Correct angle drawn	1	B1 for angle of correct size

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
12	(a)	20, 32, 56, 79, 86, 100	Correct order	1	B1 cao
	(b)	0.8, 1.9, 2.01, 3.75, 5.6	Correct order	1	B1 cao
	(c)	10%, 15%, 60%, 85%	Correct order	1	B1 cao condone missing percentage signs
13	(a)		Friday	1	B1 oe
	(b)		9 <sup>th</sup> Aug	2	M1 for counting on to 31 <sup>st</sup> July or for attempt to add on 2 weeks or 14 days do not award if the candidate goes on to 32, 33... A1 for 9 <sup>th</sup> Aug (ignore the day of the week if given)  SC B1 for 10 <sup>th</sup> Aug with or without working
14		$5402 - 4965 = 437$ $437 \times 0.12 =$  <b>Or</b>  $5402 \times 0.12 - 4965 \times 0.12$	£52.44	4	M1 for subtracting 4965 from 5402, may be visible on bill or $5402 \times 0.12$ or $4965 \times 0.12$ M1 for “437” $\times 0.12$ even if “437” is $4965 + 5402$ or $5402 \times 0.12 - 4965 \times 0.12$ A2 cao (A1 for digits 5244)  <b>SC B2</b> for digits 124404

PAPER: ANM10_1A				
Question	Working	Answer	Mark	Notes
15	$10 \times 12 + 8 \times 3$ <b>Or</b> $20 \times 3 + 12 \times 7$ <b>Or</b> $20 \times 10 - 8 \times 7$	144	4	<p>M1 for splitting shape into two rectangles either vertically or horizontally or for identifying the outside rectangle or for establishing one of the missing sides is 8 or 7</p> <p>M1 for method shown to find the area of one rectangle e.g. <math>12 \times 10</math> or <math>8 \times 3</math> or <math>20 \times 3</math> or <math>12 \times 7</math> or <math>20 \times 10</math> or <math>8 \times 7</math></p> <p>M1 for a complete method, with correct lengths that could result in the correct answer</p> <p>A1 cao</p>



## Section B

PAPER: ANM10_1B					
Question	Working	Answer	Mark	Notes	
1	(a)	9.50	1	B1 cao	
	(b)	705 <u>372</u> -	333	2	M1 for an attempt to decompose in order to subtract 7 from 10 can be awarded for sight of a 3 in the tens column A1 cao
	(c)	3.55 17.1 <u>0.9</u> +	21.55	2	M1 for writing the decimals in the correct column. This can be evidenced by sight of .55 after the decimal point in the answer A1 cao  <b>SC B1 for digits 2155</b>
	(d)	263 <u>8</u> × 2104	2104	2	M1 for $8 \times 3$ or sight of 24 in the traditional method or correct multiplications for box method or Napier's bones condoning one multiplication error or attempt to add 8 lots of 2263 A1 cao

×	200	60	3
8	1600	480	24

	2	6	3	×
	1	4	2	8
	6	8	4	
2	1	0	4	

<b>PAPER: ANM10_1B</b>					
<b>Question</b>		<b>Working</b>	<b>Answer</b>	<b>Mark</b>	<b>Notes</b>
2	(a)		kg or lb	1	B1 for kg or pounds
	(b)		Miles or km	1	B1 for miles or km
	(c)		Litres or pints	1	B1 litres or pints accept millilitres
3	(a)		35	1	B1 cao
	(b)		36	1	B1 cao
	(c)		570	1	B1 cao
	(d)		600	1	B1 accept in words
	(e)		3 tenths	1	B1 oe
4	(a)	-5, -4, -3, -2, -1	No. line	1	B1 for correctly completing the number line
	(b)		3 or +3	1	B1 cao
	(c)		-5	1	B1 cao
	(d)	-4, -2, -1, 0, 2, 5	Correct order	1	B1 cao
5	(a)		Correct factor of 12	1	B1 for 1 or 2 or 3 or 4 or 6 or 12
	(b)		Correct prime number between 10 and 20	1	B1 for 11 or 13 or 17 or 19

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
6	(a)		$\frac{3}{6}$ and $\frac{2}{4}$	1	B1 cao
	(b)		$\frac{3}{4}$	1	B1 cao
	(c)		$\frac{1}{2}$	1	B1 cao
	(d)		0.25	1	B1 cao
	(e)		75%	1	B1 cao
7		$5 \times 3 \times 2$	$30 \text{ cm}^3$	3	M1 for $5 \times 3 \times 2$ A1 for 30 B1 for $\text{cm}^3$
8			$\frac{6}{12}$	1	B1 for $\frac{6}{12}$ oe







