

# Mark Scheme (Results)

Summer 2016

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

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

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

M1 – method mark

A1 – accuracy mark

B1 – Working mark

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**

<b>PAPER: ANM10_1A</b>					
<b>Question</b>		<b>Working</b>	<b>Answer</b>	<b>Mark</b>	<b>Notes</b>
1	(a)		Coldpoint	1	B1 cao
	(b)		Geko	1	B1 cao
	(c)		Filips and Niff	1	B1 accept in either order
2	(a)		440	1	B1 cao
	(b)		Two hundred and seven	1	B1 as long as meaning is clear. Use professional judgement on spelling and the answer sounds like the actual correct spelling without ambiguity
	(c)		820	1	B1 oe accept if in words
	(d)		67.4	1	B1 cao
	(e)		61.44	1	B1 cao

PAPER ANM10/1A					
Question		Working	Answer	Mark	Notes
3	(a)		$\frac{45}{100}$	1	B1 condone incorrect cancelling following $\frac{45}{100}$ seen in the working as long as this is not contradicted on the answer line
	(b)		360	2	M1 for $600 \div 5$ or $600 \times 3$ A1 cao
	(c)		180	2	M1 for $\frac{30}{100} \times 600$ oe or 10% is $600 \div 10$ or 60 or $3 \times 60$ oe A1 cao
4		$\begin{array}{r} 2 \times 45p = 0.90 \\ 1 \times \text{£}3.25 = 3.25 \\ 3 \times 79p = \underline{2.37} + \\ \text{£}6.52 \end{array}$ $10.00 - 6.52$	3.48	4	M1 for correct method to work out $2 \times 45p$ or $3 \times 79p$ M1 for adding the 3 items or 6.52 or 4.49 seen as a total M1 for correct method to subtract their total from £10 (may be awarded for a correct subtraction from £10 of their total) A1 cao <b>Or</b> M1 for subtracting one item from £10 (may be awarded for a correct subtraction from £10 of their item) M1 for correct method to work out $2 \times 45p$ or $3 \times 79p$ M1 for subtracting the 3 items or subtracting 6.52 or 5.51 (may be awarded for a correct subtraction from £10 of their total)  <b>SC B2</b> for 5.51 given as their answer



PAPER: ANM10/1A					
Question		Working	Answer	Mark	Notes
5	(a)		Twenty to three	2	B1 for their longer hand shown at $8 \pm$ one minute B1 for their shorter hand shown between 2 and 3 with hand nearer 3 than 2 (accept if hand points to 3)  <b>SC B1</b> for correctly pointing hands of equal length or hand length swapped
	(b)		2h 35 min or 155 min	2	M1 for method to subtract 10 45 from 13 20 either by showing a carry of 60 minutes in a subtraction or $80 - 45$ or by adding on 2 out of 15 min + (2 hours) + 20 min A1 cao
6	(a)		14	1	B1 cao
	(b)		20	2	M1 for $14 - - 6$ or $14 + 6$ or evidence of counting from $-6$ to 14 may be seen on the diagrams A1 for 20 accept $-20$
7	(a)		75	1	B1 cao
	(b)		6 cm line	1	B1 for drawing a line of the correct length
8	(a)		36	1	B1 cao
	(b)		6.5	1	B1 cao

PAPER: ANM10/A					
Question		Working	Answer	Mark	Notes
9	(a)	9, 27, 55, 83, 104	Correct order	1	B1 cao
	(b)	0.99, 1.9, 2.5, 5.2, 9.1	Correct order	1	B1 cao
	(c)	9%, 10%, 15%, 17%, 27%	Correct order	1	B1 cao condone missing percentage signs
10	(a)		45	1	B1 cao
	(b)		Graph drawn	2	M1 for plotting one value correctly. A1 cao
	(c)		219	2	M1 for method to show $41 + 45 + 47 + 44 + 42$ or $200 + 1 + 5 + 7 + 4 + 2$ ft from their readings which may be shown on the graph or from part (a) A1 ft from their readings
11	(a)		6.5	1	B1 cao
	(b)		13.6	1	B1 cao
12			3920	2	M1 for $35 \times 14 \times 8$ A1 cao

<b>PAPER: ANM10/A</b>					
<b>Question</b>		<b>Working</b>	<b>Answer</b>	<b>Mark</b>	<b>Notes</b>
13			30	3	M1 for intention to find one area e.g. $7 \times 2 (= 14)$ or $8 \times 2 (= 16)$ or $7 \times 10 (= 70)$ or $5 \times 8 (= 40)$ <b>or</b> for finding the missing side e.g. $10 - 2$ or 8 shown on diagram or 34 seen from a perimeter calculation M1 for complete method e.g. $7 \times 2 + 8 \times 2$ or $(7 + 8) \times 2$ or $7 \times 10 - 5 \times 8$ A1 cao
14			£30.50	4	M1 for $120 \times 5\text{p} (= £6.00)$ or $150 \times 8\text{p} (= £12.00)$ M1 for $120 \times 5\text{p} + 150 \times 8\text{p}$ M1 for adding cost of calls, cost of texts and monthly charge A1 for £30.50 or 3050p
15			1.33	3	M1 for $7.99 \div 6$ A1 for 1.33 (1666...) B1 ft for rounding appropriately  SC B1 for answer of 0.75



**Section B**

<b>PAPER: ANM10/B</b>					
<b>Question</b>		<b>Working</b>	<b>Answer</b>	<b>Mark</b>	<b>Notes</b>
1	(a)		153	2	M1 for decomposition of the hundreds, may be evidenced by a 3 in the units answer A1cao
	(b)		30.68	2	M1 for intention to add the decimals in correct columns with decimal points lined up; may be evidenced with <i>xx.68</i> given as the answer A1 cao
	(c)	$\begin{array}{r} 54 \\ 6 \overline{)32^2 4} \\ \\ 324 \\ \underline{60} - \\ 264 \\ \underline{60} - \\ 204 \text{ etc} \end{array}$	54	2	M1 for complete structured method to divide by 6 e.g. 5 tens with a remainder of 2 or complete method to subtract 60's from 324 with at least 3 seen A1 cao

PAPER: ANM10/B					
Question		Working	Answer	Mark	Notes
2	(a)		-1	1	B1 cao
	(b)		3	1	B1 cao
3	(a)		56	1	B1 cao
	(b)		7	1	B1 cao
	(c)		450	1	B1 cao
4	(a)		0.7	1	B1 cao
	(b)		$\frac{3}{4}$	1	B1 cao
	(c)		$\frac{7}{10}$	1	B1 oe
	(d)(i)		$\frac{5}{6}$	2	B1 cao
	(ii)		$\frac{1}{4}$ and $\frac{3}{12}$		B1cao, in either order
5	(a)		8 or 12	1	B1 for 8 or 12
	(b)		18 or 36	1	B1 for 18 or 36

PAPER: ANM10/B					
Question		Working	Answer	Mark	Notes
6	(i) (ii)		16 cm 15 cm <sup>2</sup>	3	B1 for 16 B1 for 15  <b>SC B1</b> for 15 given in (i) and 16 given in (ii)  B1 for correct units used in both parts
7	(a)		July completed	1	B1 for completing July correctly with July 31 <sup>st</sup> shown on Sunday in the bottom row
	(b)		17	2	B2 for 17 (B1 for 16)
8			D or £10	1	B1 cao maybe circled in question
9	(a)		8.05	1	B1 cao
	(b)		200	2	M1 for establishing $\$32.20 = \pounds 20$ or $\pounds 322 \div 1.61$ oe A1 cao
	(c)		247.94	2	M1 for $\$161.00 + 5 \times \$16.10 + 4 \times \$1.61$ oe A1 cao







