

Mark Scheme (Results)

January 2015

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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)		87.87	1	B1 cao
	(b)		36.225	1	B1 cao
	(c)		16.2	1	B1 cao
	(d)		35	1	B1 cao
2	(a)		76	1	B1 cao
	(b)		46	1	B1 cao
3			3.18	4	M1 for correct method to work out one of $3 \times 99p$ or $5 \times 18p$ M1 for adding the 3 items or 6.82 or 4.12 seen as a total M1 for correct method to subtract their total from £10 A1 cao Or M1 for subtracting one item from £10 M1 for correct method to work out one of $3 \times 99p$ or $5 \times 18p$ M1 for subtracting the 3 items or 6.82 or 4.12 A1 cao SC B2 for £5.88
4	(a)		10 40	1	B1 cao
	(b)		1 hour 9 minutes	1	B1 for one hour 9 minutes or 69 minutes
	(c)		15	2	M1 for 12 24 and 12 09 identified A1 cao

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
5			73.44 cm ³	3	M1 for $8.5 \times 3.6 \times 2.4$ A1 for 73.44 B1 for cm ³
6			7.50	2	M1 for $\frac{3}{100} \times 250$ oe e.g. $3 \times 2.5 (= 7.5)$ A1 cao
7	(a)		6 45 pm or 18 45	2	B2 for fully correct time that incorporates pm e.g. 6 45 pm or in 24 hour format e.g. 18 45 or quarter to seven in the evening (B1 for incomplete time e.g. 6 45 or quarter to 7 or 6 45 am or 06 45 or quarter to 7 in the morning)
	(b)		4 minutes 10 seconds	2	M1 for $250 \div 60$ or a correct method to count up in 60s A1 cao B1 SC for 4 minutes 16 seconds or 4.16 seen in working
8	(a)		Graph	3	B1 for correct labels for colours on horizontal axis or key given B2 for all frequencies correct (B1 for 3 frequencies correct)
	(b)		Red	1	B1 follow through from their graph or table
	(c)		27	1	B1 ft their graph or table

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
9	(a)		225	2	M1 for $360 \div 8$ or 360×5 A1 cao
	(b)		144	2	M1 for $\frac{40}{100} \times 360$ or $36 + 36 + 36 + 36$ oe A1 cao
10	(a)		8	1	B1 for 8
	(b)		Correct angle drawn	1	B1 for angle of correct size
11	(a)	9, 21, 33, 83, 101	Correct order	1	B1 cao
	(b)	0.89, 1.99, 2.4, 3.01, 6	Correct order	1	B1 cao
	(c)	9%, 26%, 36%, 47%, 85%	Correct order	1	B1 cao condone missing percentage signs
12	(a)		27	1	B1 cao
	(b)		12	1	B1 cao
	(c)		5	1	B1 cao

PAPER: ANM10_1A					
Question		Working	Answer	Mark	Notes
13	(a)		Saturday	1	B1 cao
	(b)		26 th Nov	2	M1 for inserting 26 th November correctly on their calendar or for attempt to count back 2 weeks or 14 days from the 10 th December including using 31 st November incorrectly A1 for 26th November (2015) SC B1 for an answer of 27 th November
14			£42.05	4	M1 for multiplying 158 by 10 or 75 by 15 M1 for $158 \times 10 + 75 \times 15 + 15$ A1 for 42.05 or 4205 B1 for sum of money written correctly SC B2 for 2720p or £27.20 SC B1 for the digits 2720
15			32	3	M1 for splitting shape into three or more rectangles either vertically or horizontally or for identifying the outside rectangle or for identifying that one of the missing sides is 4 or 2 M1 for attempt to correctly find the area of one rectangle e.g. 10×2 or 4×3 or 3×2 or 10×4 or 4×2 A1 cao

Section B

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
1	(a)	$\begin{array}{r} 306 \\ 67 \\ \hline 119 \end{array} +$	492	2	M1 for sight of 2 carried into tens column, may be awarded for 2 in units column with no 2 in tens column as part of the answer A1 cao
	(b)	$\begin{array}{r} 25.0 \\ 16.4 \\ \hline \end{array} -$	8.6	2	M1 for an attempt to decompose in order to subtract 4 from 10 can be awarded for sight of a 0 in the tenths column or 6 in the tenths column as part of the answer A1 cao
	(c)	$\begin{array}{r} 42 \\ 6 \overline{)25} \end{array} \overset{1}{2}$	42	2	M1 for $25 \div 6$ with a carry of 1 shown with the 2 or correct method to subtract 6 at least 10 times or to subtract 60 A1 cao
2	(a)		cm or mm or inches or feet	1	B1 for cm, mm or inches or feet
	(b)		Litres or gallons	1	B1 for litres or gallons
	(c)		Grams or kilograms ounces or pounds	1	B1 for grams or kilograms or ounces or pounds

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
3	(a)	$\begin{array}{r} 2 \text{ kg } 500 \text{ g} \quad 6 \text{ kg } 250 \text{ g} \\ \underline{3 \text{ kg } 750 \text{ g}} + \quad \underline{4 \text{ kg } 900 \text{ g}} - \\ 6 \text{ kg } 250 \text{ g} \end{array}$ <p>Or</p> $2500 + 3750 - 4900$	1 kg 350 g	2	<p>M1 for method to show $2 + 3 - 4$ or $500 + 750 - 900$ or total including 350 g or for intention to subtract 4 kg 900 g from their total with decomposition to allow subtraction of 9</p> <p>A1 for 1 kg 350 g or 1350 g or 1.35 kg</p> <p>Or</p> <p>M1 for writing all measurements into g for intention to add 2500 and 3750 or sight of total of 6250 or intention to subtract 4900 from their total with decomposition to allow subtraction of 9</p> <p>A1 for 1 kg 350 g or 1350 g or 1.35(0) kg</p>
	(b)		250	1	B1 cao
4	(a)		4500	1	B1 cao
	(b)		8	1	B1 cao
	(c)		Three hundred and seventy five	1	B1 as long as meaning is clear. Use professional judgement on spelling and whether the answer sounds like the actual correct spelling
	(d)		760	1	B1 accept in words
	(e)		3 hundredths	1	B1 oe

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
5			D or £200	1	B1 for D or £200
6	(a)		22	2	M1 for correct method to find perimeter or semi perimeter A1 cao
	(b)		28	2	M1 for 7×4 A1 cao
7	(a)		4	1	B1 cao
	(b)		-3	1	B1 cao
8	(a)		$\frac{2}{5}$	1	B1 oe
	(b)		$\frac{4}{6}$	1	B1 for any fraction equivalent to $\frac{2}{3}$
	(c)		$\frac{1}{2}$	1	B1 cao

PAPER: ANM10_1B					
Question		Working	Answer	Mark	Notes
9	(a)		0.6	1	B1 cao
	(b)		$\frac{3}{4}$	1	B1 for a fraction equivalent to $\frac{3}{4}$
	(c)		$\frac{7}{10}$	1	B1 oe

