Mark Scheme (Results)

Summer 2015

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

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications are awarded by Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at www.edexcel.com or www.btec.co.uk. Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus.

Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk

Contents

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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)		Fergie	1	B1 cao
	(b)		Bony	1	B1 cao
	(c)		Bony and Trident	1	B1 accept in either order
2	(a)		245	1	B1 cao
	(b)		Three hundred and fifty	1	B1 as long as meaning is clear. Use professional judgement on spelling and the answer sounds like the actual correct spelling
	(c)		600	1	B1 oe accept if in words
	(d)		639.4	1	B1 cao
	(e)		39.72	1	B1 cao
3	(a)		$\dfrac{40}{100}$	1	B1 oe
	(b)		15	2	M1 for $\dfrac{25}{100} \times 60$ oe or 10% is $\dfrac{60}{10}$ or $60 \div 10$ or (£)6 or $60 \div 4$ A1 cao

PAPER: ANM10/1A Section A					
Question		**Working**	**Answer**	**Mark**	**Notes**
4		$2 \times £3.95 \quad = 7.90$ $1 \times £1.25 \quad = 1.25$ $3 \times 99p \quad \underline{= 2.97} +$ $\quad\quad\quad\quad\quad £12.12$ $20.00 - 12.12$	7.88	4	M1 for intention to calculate one multiple item e.g. $2 \times 3.95 (= 7.9(0))$ or $3 \times 99 (= 2.97$ or $297)$ M1 for addition of all 3 different items, may be given for a total of (£) 6.19 M1 for intention to subtract their total from £20 A1 cao SC B2 for 13.81 given as their answer
5	(a)		Quarter past seven marked correctly	2	B1 for long hand shown at 3 or very near 3 B1 for short hand shown at 7 or between 7 and 8 **SC B1** for the shorter hand shown at 3 or very near 3 **and** the longer hand shown at 7 or between 7 and 8
	(b)		9 10 or 2110	2	M1 for complete method to add 115 minutes which might be seen as $7\ 15 + 45 + 60 + 10$ or $7\ 15 + 1$ hour 55 mins ft from the time they think they have shown on their clock A1 oe
6	(a)		–4	1	B1 cao
	(b)		16	2	M1 for $12 - -4$ or $12 + 4$ or attempt to count from –4 to 12 A1 for 16 accept –16
7	(a)		115	1	B1 cao
	(b)		9 cm line	1	B1 for drawing a line of the correct length

PAPER: ANM10/1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
8	(a)		United	1	B1 cao
	(b)		City and Albion	1	B1 for City and Albion in either order
	(c)		27	2	M1 for attempting to add the five frequencies for all the teams e.g. $7 + 6 + 3 + 5 + 6$ condone one error in frequencies A1 cao
9	(a)		200	2	M1 for $240 \div 6$ or 240×5 A1 cao
	(b)		60	2	M1 for $\frac{20}{100} \times 300$ or sight of $30 + 30$ or 360 oe A1 cao
10	(a)		12.6	1	B1 cao
	(b)		6.7	1	B1 cao
11			3000	2	M1 for $25 \times 12 \times 10$ oe A1 cao
12			11.25	3	M1 for intention to find one area e.g. 3.5×1.5 (= 5.25) or 4×1.5 (= 6) oe M1 for complete method e.g. $3.5 \times 1.5 + 4 \times 1.5$ or $(3.5 + 4) \times 1.5$ or $5.25 + 6$ A1 cao

PAPER: ANM10/1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
13			£33.20	4	M1 for 3723 – 3585 (= 138) M1 for "138" × 15p oe M1 for adding cost of units and monthly charge consistently A1 for £33.2(0) or 3320p **Or** M1 for 3723 × 15p (= (£)558.45) or 55 845 (p) or 3585 × 15p (= (£)537.75) or 53 775 (p) M1 for "(£)558.45" – "(£) 537.75" oe M1 for adding cost of units and monthly charge consistently A1 for £33.2(0) or 3320p
14			21p	3	M1 for 9.99 ÷ 48 A1 for 0.208125 or 20.8125 B1 for units consistent with their working e.g. 21p or £0.21 written to the nearest penny
15	(a)		44	1	B1 cao
	(b)		Leeds and Sheffield	1	B1 in either order
	(c)		94	2	M1 for identifying two distances (48 ~~and~~ **or** 46) with the other value coming from the table **and** showing the intention to add A1 for 94

Question		Working	Answer	Mark	Notes
1	(a)		273	2	M1 for decomposition of the tens or the hundreds, may be evidenced by a 3 in the units answer or if they choose an adding on method evidence of adding 11 to the 89 to get to 100 would be sufficient A1cao
	(b)		26.65	2	M1 for intention to add the decimals in correct columns with decimal points lined up; may be evidenced with xx.65 given as the answer A1 cao

	(c)	5 2 6
		   6 ×
		31_15_36
		
		[grid: 5 2 6 ×; 3/0 1/2 3/6 6; 31 5 6]
		
		$6 \times 500 = 3000$
		$6 \times \ 20 = \ 120$
		$6 \times \ \ 6 = \ \ 36$ +
		     3156
			3156	2	M1 for complete structured method to multiply by 6 condone one multiplication error or if they choose to add 526 six times with two columns correct e.g.(x)x56
					A1 cao

PAPER: ANM10/B					
Question		**Working**	**Answer**	**Mark**	**Notes**
2	(a)		–6, –3, –1, 0, 2, 4	1	B1 cao
	(b)		–4	1	B1 cao
	(c)		–1	1	B1 cao
3	(a)		76.5	1	B1 cao
	(b)		360	1	B1 cao
4	(a)		94, 118, 256, 304, 500	1	B1 cao
	(b)		0.25,0.52,2.05,2.5,5.02,5.2	1	B1 cao
	(c)		2%,15%,35%,40%,65%	1	B1 cao condone missing percentage signs
5	(a)		45	1	B1 cao
	(b)		8	1	B1 cao
	(c)		32 000	1	B1 cao

Question		Working	Answer	Mark	Notes
PAPER: ANM10/B					
6	(a)		$\dfrac{8}{10}$	1	B1 oe
	(b)		$\dfrac{2}{3}$	1	B1 cao
	(c)		$\dfrac{7}{12}$	1	B1 oe
	(d)(i)		$\dfrac{3}{4}$	2	B1 cao
	(ii)		$\dfrac{2}{3}$ and $\dfrac{4}{6}$		B1 cao, in either order
7	(a)		10 or 15	1	B1 for 10 or 15
	(b)		6	1	B1 cao
8	(a)		32	1	B1 cao
	(b)		24	1	B1 cao
9	(a)		March completed	1	B1 for completing March correctly with March 31st shown on Tuesday in the bottom row
	(b)		22	2	M1 ft their March for counting on to 8th April A1 for 22 **SC B2** for 21 ft from only 30 days in March shown
10			B or 40p	1	B1 cao