Mark Scheme (Results)

Summer 2013

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

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications come from Pearson, the world's leading learning company. 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 for our BTEC qualifications.
Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus.

If you have any subject specific questions about this specification that require the help of a subject specialist, you can speak directly to the subject team at Pearson.
Their contact details can be found on this link: www.edexcel.com/teachingservices.

You can also use our online Ask the Expert service at www.edexcel.com/ask. You will need an Edexcel username and password to access this service.

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

Section A

PAPER: ANM10/1A					
Question		Working	Answer	Mark	Notes
1	(a)		Two hundred and sixty three	1	B1 as long as meaning is clear. Use professional judgement on spelling and sounds like the actual correct spelling
	(b)		607	1	B1 cao
	(c)		3000	1	B1 oe accept if in words
	(d)		85	1	B1 cao
	(e)		3.45	1	B1 cao
	(f)		21.12	1	B1 cao
	(g)		43.75	1	B1 cao
2	(a)		Sue	1	B1 cao
	(b)		Jill and Tom	1	B1 accept in any order
	(c)		Sue	1	B1 cao

PAPER: ANM10/1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
3	(a)		$\dfrac{25}{100}$	1	B1 oe
	(b)	$\dfrac{60}{100} \times 45$	27	2	M1 for $\dfrac{60}{100} \times 45$ oe or 10% is $45 \div 10$ or £4.50 or 4.5 oe A1 cao
4		$1 \times £3.75 \quad = 3.75$ $2 \times 95p \quad = 1.90$ $3 \times 81p \quad \underline{= 2.43} +$ $\qquad\qquad\quad £\,8.08$ $10.00 - 8.08$	1.92	4	M1 for attempt to calculate one multiple item 2×95 or 3×81 M1 for addition of all 3 different items M1 for attempt to subtract their total from £10 A1 cao SC B2 for 4.49 given as their answer

PAPER: ANM10/1A					
Question		Working	Answer	Mark	Notes
5	(a)		Ten to eight marked correctly	2	B1 for long hand shown at 10 B1 for short hand shown between 7 and 8
	(b)	16 15 07 50 **or** 07 50 to 08 00 is 10 min 08 00 oo 16 00 is 8 hours 16 00 to 16 15 is 15 min **or** Ten to 8 to 8 am is 10 min 8 am to 12 noon is 4 h 12 noon to 4 pm is 4 h 4 pm to 4 15 pm is 15 min	8 h 25 min	2	M1 for attempt to subtract the two times or sight of 16 15 – 07 50 A1 cao accept 505 minutes **or** M1 for attempt to add on from 07 50 to 08 00 or sight of 10 minutes or 08 00 to 16 00 or sight of 8 hours or 16 00 to 16 15 or sight of 15 min A1 cao accept 505 minutes **or** M1 for attempt to add on from 07 50 to 8 am or sight of 10 minutes or 8 am to 12 noon or sight of 4 hours or 12 noon to 4 pm or sight of 4 hours or 4 pm to 4 15 pm or sight of 15 min A1 cao accept 505 minutes
6	(a)		9	1	B1 cao
	(b)	9 – –6	15	2	M1 for 9 – – 6 or 9 + 6 or attempt to count from –6 to 9 A1 for 15 accept –15 SC B1 for 23

PAPER: ANM10/1A					
Question		**Working**	**Answer**	**Mark**	**Notes**
7	(a)		Correct length	2	B1 for 11 or 110 B1 for cm or mm
	(b)		Correct angle	1	B1 for 65 ± 2º
8	(a)		Correct graph	3	B1 for labels written on horizontal axis B2 for 5 column heights correct (B1 for 3 column heights correct)
	(b)		Bacon	1	B1 ft
	(c)		Plain & Cheese	1	B1 ft for Plain and Cheese in either order
9	(a)	$320 \div 8 \times 5$	200	2	M1 for $32 \div 8$ or 32×5 A1 cao
	(b)	$\dfrac{20}{100} \times 160$	32	2	M1 for $\dfrac{20}{100} \times 160$ oe or sight of $16 + 16$ or 192 A1 cao
10	(a)		5.28	1	B1 cao
	(b)		5.9	1	B1 cao

PAPER: ANM10/1A				
Question	Working	Answer	Mark	Notes
11		28	2	B2 for 28 or 0.28 or 29 or 0.29 (B1 for 0.284(285…))
12	$10 \times 5 \times 4$	200	2	M1 for $10 \times 5 \times 4$ A1 cao
13	50×7.5 $= £\ 3.75$ 75×4 $= £\ 3.00$ <u>£15.00</u> $+$	£21.75	5	M1 for 50×7.5 or sight of 3.75 or 375 oe M1 for 75×4 or sight of 3 or 300 oe M1 for adding calls and texts and monthly rental A2 for £21.75 or 2175p (A1 for digits 2175)
14	$10 \times 4 + 8 \times 4$	72	3	M1 for attempt to find one area e.g. 10×4 or 8×4 oe M1 for complete correct method A1 cao

Section B

PAPER: ANM10/1B					
Question		**Working**	**Answer**	**Mark**	**Notes**
1	(a)		3476	2	M1 for attempt to add all three numbers may be evidenced by 6 in unit column of answer. A1 cao
	(b)	50.0 15.7 –	34.3	2	M1 for attempt to decompose 50.0 so that subtraction can take place may be evidenced by 3 in tenths column of answer A1 cao
	(c)	4 9 5)24⁴5	49	2	M1 for attempt to divide 5 into 24 with sight of 4 or attempt to subtract 5 at least 10 times or 50 once from 245 A1 cao
2	(a)		2	1	B1 accept +2 or positive 2
	(b)		–5	1	B1 cao
3	(a)		42	1	B1 cao
	(b)		9	1	B1 cao
	(c)		4500	1	B1 cao

PAPER: ANM10/1B					
Question		**Working**	**Answer**	**Mark**	**Notes**
4	(a)	9, 16, 33, 47, 72, 80	Correct order	1	B1 cao
	(b)	0.04, 0.45, 0.54, 4.5, 5.01, 5.4	Correct order	1	B1 cao
	(c)	20%, 50%, 75%, 95%	Correct order	1	B1 cao condone missing percentage signs
5	(a)		$\dfrac{2}{5}$	1	B1 cao
	(b)		0.75	1	B1 cao
	(c)		$\dfrac{5}{12}$	1	B1 cao
	(d)(i)		$\dfrac{2}{6}$	1	B1 cao
	(ii)		$\dfrac{1}{2}$ and $\dfrac{2}{4}$	1	B1 cao
6	(a)		15 or 20	1	B1 for 15 or 20
	(b)		4 or 20	1	B1 for 4 or 20
	(c)		3 or 7 or 29	1	B1 for 3 or 7 or 29
	(d)		3 and 4	1	B1 cao

PAPER: ANM10/1B					
Question		Working	Answer	Mark	Notes
7	(a)	$10 + 4 + 10 + 4$	26	2	M1 for evidence of adding up at least 2 lengths A1 cao
	(b)	10×4	36	2	M1 for 9×4 A1 cao
8	(a)		Saturday	1	B1 for Saturday accept abbreviation
	(b)		3rd June	2	M1 for counting on to 31st May or showing 3 weeks or 21 days after 13th May A1 for 3rd June (2013)