

# Mark Scheme (Results)

January 2016

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](http://www.edexcel.com) or [www.btec.co.uk](http://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](http://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](http://www.pearson.com/uk)

January 2016

Publications Code EA043329

All the material in this publication is copyright

© Pearson Education Ltd 2016

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

**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)		36	1	B1 cao
	(b)		76	1	B1 cao
2	(a)		21.6	2	M1 for correct method to find perimeter or semi perimeter or 10.8 seen A1 cao
	(b)		25.92	2	M1 for $7.2 \times 3.6$ A1 cao
3	(a)(i)		30.29	3	B1 cao
	(a)(ii)		2.3		B1 cao
	(a)(iii)		4.3152		B1 cao
	(b)		9	1	B1 cao

PAPER ANM10/1A					
Question		Working	Answer	Mark	Notes
4			3.14	4	<p>M1 for correct method to work out one of <math>4 \times \text{£}2.99</math> or <math>3 \times 95\text{p}</math>  M1 for adding the 3 item types or 16.86 or 5.99 seen as a total  M1 for correct method to subtract their total from <math>\text{£}20</math>  A1 cao  <b>Or</b>  M1 for subtracting one item type correctly from <math>\text{£}20</math>  M1 for correct method to work out one of <math>4 \times \text{£}2.99</math> or <math>3 \times 95\text{p}</math>  M1 for subtracting the 3 items or subtracting 16.86 or 14.01  A1 cao  SC B2 for 14.01</p>
5	(a)		150	2	<p>M1 for <math>240 \div 8 (= 30)</math> or <math>240 \times 5 (= 1200)</math>  A1 cao</p>
	(b)		72	2	<p>M1 for <math>\frac{30}{100} \times 240</math> or <math>24 + 24 + 24</math> oe  A1 cao</p>
6	(a)		5 50 am or 05 50	2	<p>B2 for fully correct time that incorporates am  e.g. 5 50 am <b>or</b> in 24 hour format e.g. 05 50 <b>or</b> ten to six in the morning accept any delimiter between hours and minutes except full stop or decimal point   (B1 for incomplete time e.g. 5 50 or ten to 6 or 5 50 pm or 17 50 or ten to 6 in the evening or ten to six)</p>
	(b)		165	2	<p>M1 for <math>2 \times 60 + 45</math> or <math>60 + 60 + 45</math>  A1 cao</p>

PAPER ANM10/1A					
Question		Working	Answer	Mark	Notes
7	(a)		Graph	3	B1 for correct labels for flowers on horizontal axis or key given B2 for all frequencies correct (B1 for 3 frequencies correct)
	(b)		Rose	1	B1 for rose or follow through from their graph <b>NB</b> Do not accept 7 on its own
8	(a)		150	1	B1 cao
	(b)		386	2	M1 for adding 3 distances two of which are correct from 81, 187 and 118 A1 cao
9			8	2	M1 for $\frac{2}{100} \times 400$ oe e.g. $2 \times 4$ or $4 + 4$ A1 cao  SC B1 for answer of 408
10	(a)		7	1	B1 for answer in range 6.8 to 7.2
	(b)		Correct angle	1	B1 for angle between $128^\circ$ and $130^\circ$ from any point on the line as long as the angle is marked
11	(a)	9, 29, 35, 83, 102	Correct order	1	B1 cao
	(b)	1.98, 2.05, 3.09, 3.99, 5.2	Correct order	1	B1 cao
	(c)	5%, 10%, 45%, 50%, 70%	Correct order	1	B1 cao condone missing percentage signs

PAPER ANM10/1A					
Question		Working	Answer	Mark	Notes
12			£61.75	4	M1 for multiplying 200 by 10 or 375 by 7 M1 for $200 \times 10p + 375 \times 7p + \text{Monthly charge}$ (2000 + 2625 + 1550 or 20 + 26.25 + 15.50) A1 for 61.75 or 6175 B1 for sum of money written correctly  SC B2 for digits 46405 seen as the answer SC B1 for digits 4625 seen as the answer
13	(a)		5	1	B1 cao
	(b)		20	1	B1 cao
	(c)		12	1	B1 cao
14	(a)		Monday	1	B1 cao
	(b)		7 <sup>th</sup> July	2	M1 for inserting 30th June, but not the 31st June, correctly or for attempt to count on 10 days from their 27th June. A1 for (Thursday) 7th July (2016) or (0)7/(0)7/(20)16)  SC B1 for (Wednesday) 6th July (2016) or (0)6/(0)7/(20)16)
15			16 cm <sup>2</sup>	4	M1 for $2.5 \times 3$ or $1.7 \times 5$ M1 for $2.5 \times 3 + 1.7 \times 5$ A1 for 16 B1 for cm <sup>2</sup>



**Section B**

PAPER ANM10/1B																										
Question	Working	Answer	Mark	Notes																						
1	(a)	$\begin{array}{r} 405 \\ 7 \\ \underline{56} + \end{array}$	468	2	M1 for sight of 1 carried into tens column, may be awarded for 8 in units column with no 1 in tens column as part of the answer A1 cao																					
	(b)	$\begin{array}{r} 80.0 \\ \underline{35.4} - \end{array}$	44.6	2	M1 for an attempt to decompose in order to subtract 4 from 10 can be awarded for sight of a carry 1 in the tenths column or 6 in the tenths column as part of the answer A1 cao																					
	(c)	$\begin{array}{r} 38 \\ \underline{7} \times \\ 266 \end{array}$ <table border="1" data-bbox="510 852 815 963" style="margin: 10px auto;"> <tr> <td>×</td> <td>30</td> <td>8</td> </tr> <tr> <td>7</td> <td>210</td> <td>56</td> </tr> </table> <table border="1" data-bbox="470 1015 869 1200" style="margin: 10px auto;"> <tr> <td></td> <td>3</td> <td>8</td> <td>×</td> </tr> <tr> <td></td> <td>2</td> <td>5</td> <td>7</td> </tr> <tr> <td></td> <td>1</td> <td>6</td> <td></td> </tr> <tr> <td>2</td> <td>6</td> <td>6</td> <td></td> </tr> </table>	×	30	8	7	210	56		3	8	×		2	5	7		1	6		2	6	6		266	2
×	30	8																								
7	210	56																								
	3	8	×																							
	2	5	7																							
	1	6																								
2	6	6																								

PAPER ANM10/1B					
Question		Working	Answer	Mark	Notes
2	(a)		ml or fl oz	1	B1 condone pint or cl or cup
	(b)		m or feet	1	B1 condone cm or mm or inches
3	(a)	$\begin{array}{r} 2 \text{ m } 45 \text{ cm} \quad 8 \text{ m } 15 \text{ cm} \\ \underline{5 \text{ m } 70 \text{ cm}} + \quad \underline{\quad 85 \text{ cm}} - \\ 8 \text{ m } 15 \text{ cm} \quad 7 \text{ m } 30 \text{ cm} \end{array}$ <b>Or</b> $245 + 570 - 85$	7 m 30 cm	2	M1 for method to show $2 + 5$ or $45 + 70 - 85$ or total including 30 cm or for intention to subtract 85 cm from their total with decomposition to allow subtraction of 8 A1 for 7 m 30 cm or 730 cm or 7.3(0) m  <b>Or</b> M1 for writing all measurements into cm for intention to add 245 and 570 or sight of total of 815 or intention to subtract 85 from their total with decomposition to allow subtraction of 8 A1 for 7 m 30 cm or 730 cm or 7.3(0) m
	(b)		4.2	1	B1 cao accept with trailing 0s
4			21 10	2	M1 for a method to add 125 minutes onto 19 05 oe <b>or</b> writing 125 minutes as 2 hours 5 minutes A1 for 21 10 oe  <b>SC</b> B1 for answer of 20 30 or 8 30 pm or 9 10

Question		Working	Answer	Mark	Notes
5	(a)		32	1	B1 cao
	(b)		54	1	B1 cao
	(c)		Six hundred and eight	1	B1 as long as meaning is clear. Use professional judgement on spelling and if the answer sounds like the actual correct spelling without ambiguity
	(d)		4000	1	B1 accept in words
	(e)		2 tenths	1	B1 oe accept tenths
6			D or £18	1	B1 for D or £18
7			40	2	M1 for $5 \times 4 \times 2$ A1 cao
8	(a)		2	1	B1 cao
	(b)		-3	1	B1 cao
	(c)		-3, -2, 0, 2, 4	1	B1 cao

PAPER ANM10/1B					
Question		Working	Answer	Mark	Notes
9	(a)		$\frac{5}{12}$	1	B1 oe
	(b)		$\frac{6}{8}$	1	B1 for any fraction equivalent to $\frac{3}{4}$
	(c)		$\frac{1}{4}$	1	B1 cao
	(d)		$\frac{3}{10}$	1	B1 oe
10	(a)		0.8	1	B1 cao
	(b)		$\frac{3}{5}$	1	B1 for a fraction equivalent to $\frac{3}{5}$



