



Pearson
Edexcel

Mark Scheme (Results)

January 2022

Pearson Edexcel Edexcel Award
In Number and Measure (ANM10)
Paper 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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

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.

Mark scheme Edexcel Award in Number and Measure

Section B

PAPER: ANM10 1B						
Question	Working	Answer	Mark	Notes	Type	
1	(a)		7%, 15%, 29%, 72%, 85%	1	B1 with or without %	Cl
	(b)		0.08, 0.7, 0.78, 0.85, 0.9	1	B1	Cl
2	(a)		42	1	B1	Cl
	(b)		64 000	1	B1	Cl
	(c)		47	1	B1	Cl
3			D or £120	1	B1 may be stated on answer line or clearly indicated in list	Cl
4	(a)		11	1	B1 allow any answer in the range 10.8 – 11.2	Cl
	(b)		Angle of 75° drawn	1	B1 allow an angle of 73° - 77° using overlay	Gr

Question	Working	Answer	Mark	Notes	Type													
5	(a)	$\begin{array}{r} 2375 \\ 307 \\ \underline{84} \\ 2766 \\ \underline{11} \end{array}$	2766	2	M1 for correctly putting numbers in columns (may be 2 separate sums) and adding all 3 numbers – may be indicated by a 6 in the units column and a carry of 1 into the tens column or for addition of all 3 numbers with just 1 mistake A1 cao	Ex												
	(b)	$\begin{array}{r} 763 \\ \underline{4} \times \\ 302512 \end{array}$ <table border="1" style="margin: 10px auto;"> <tr> <td>7</td> <td>6</td> <td>3</td> <td>×</td> </tr> <tr> <td>2 / 8</td> <td>2 / 4</td> <td>1 / 2</td> <td>4</td> </tr> <tr> <td>30</td> <td>5</td> <td>2</td> <td></td> </tr> </table> $\begin{array}{r} 4 \times 700 = 2800 \\ 4 \times 60 = 240 \\ 4 \times 3 = 12 + \\ \hline 3052 \end{array}$	7	6	3	×	2 / 8	2 / 4	1 / 2	4	30	5	2		3052	2	M1 for 12 with a 2 in the units column and a 1 carried to the 10's column or a correct multiplication with one error only or correct multiplications for box method or splitting numbers up into 4×700 , 4×60 , 4×3 , condoning one multiplication error or adding 4 lots of 763 with one error only A1cao	Ex
7	6	3	×															
2 / 8	2 / 4	1 / 2	4															
30	5	2																
	(c)	$\begin{array}{r} _ 57.14 \\ \underline{15.2} \\ 41.94 \end{array}$	41.94	2	M1 for correctly putting numbers in columns with a 4 in the hundredths column and a method to subtract the tenths – may be indicated by 9 in the tenths column or for crossing through of 7 in 57 and a 1 by the side of the 1 in 57.14 A1 cao	Ex												

Question	Working	Answer	Mark	Notes	Type	
6	(a)		$\frac{7}{12}$	1	B1 cao	Cl
	(b)		$\frac{3}{5}$	1	B1 cao	Cl
	(c)		eg $\frac{2}{6}$	1	B1 oe eg $\frac{10}{30}, \frac{20}{60}, \frac{100}{300}$ etc	Gr
	(d)		$\frac{11}{17}$	1	B1 oe eg $\frac{187}{289}$	Cl
	(e)		0.8	1	B1 for 0.8(000...)	Cl
	(f)		$\frac{3}{5}$	1	B1 oe eg $\frac{60}{100}$	Cl
7	(a)		Metre(s)	1	B1 for a metric unit of length eg m or centimetre(s) (cm) or millimetre(s) (mm)	Gr
	(b)		pint	1	B1 for pint(s) or pt or fluid ounce(s) oe	Gr
8			44	2	M1 for $2 \times 10 + 2 \times 12$ oe or for $10 + 12 (=22)$ A1	Gr

Question	Working	Answer	Mark	Notes	Type	
9	(a)		eg 8 or 16 etc	1	B1 for any multiple of 8	Gr
	(b)		1 or 3 or 9	1	B1	Cl
	(c)		7	1	B1	Cl
10	(a)		-4,-2,-1,0,3,5	1	B1 all must be present with no extras	Cl
	(b)		3	1	B1	Cl
	(c)		1	1	B1	Cl