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Edexcel

## Mark Scheme (Results)

January 2022

Pearson Edexcel Edexcel Award  
In Number and Measure (ANM10)  
Paper 1A

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

PAPER: ANM10 1A						
Question	Working	Answer	Mark	Notes	Type	
1	(a)		744	1	B1 cao	Cl
	(b)		Arrow pointing at 276	1	B1 cao (arrow on 3rd notch after 270) May or may not be labelled.	Cl
2	(a)		560	1	B1 cao	Cl
	(b)		520	1	B1 cao	Cl
	(c)		3 tenths	1	B1 oe eg 'tenths' $\frac{3}{10}$ but do not allow 0.3	Gr
3	(a)		30.53	1	B1 cao	Cl
	(b)		1672	1	B1 cao	Cl
	(c)		353	1	B1 cao	Cl
4		£2.96 or 296p	2	M1 for 10.85 – 7.89 or 1085 – 789 or digits 296 without units  A1 either answer – units must be present	Gr	

Question	Working	Answer	Mark	Notes	Type
5	(a)	$\frac{12}{13}$	1	B1 oe eg $\frac{24}{26}$	Cl
	(b)	426	2	M1 for $\frac{2}{3} \times 639$ oe or for $2 \times 639 (=1278)$ or $639 \div 3 (=213)$ A1 cao	G one clip
	(c)	232	2	M1 for $0.4 \times 580$ oe eg $4 \times 58$ A1 cao	
	(d)	0.25	1	B1	Cl
6	(a)	257	2	M1 for $4 \times 60 (=240)$ A1	Gr
	(b)	7 km 770 m or 7.77(0) km or 7770 m	2	M1 for $5 + 4 - 2 (=7)$ or $463 + 612 - 305 (=770)$ or 7770 or 7.77(0) A1 for 7 km 770 m or 7.77(0) km or 7770 m <b>or</b> M1 for writing all measurements in m and $5463 + 4612 (=10075)$ or $5463 - 2305 (=3158)$ or $4612 - 2305 (=2307)$ or for 7770 A1 for 7 km 770 m or 7.77(0) km or 7770 m <b>or</b> M1 for writing all measurements in km and $5.463 + 4.612 (= 10.075)$ or $5.463 - 2.305 (=3.158)$ or $4.612 - 2.305 (2.307)$ or for or 7.77(0) A1 for 7 km 770 m or 7.77(0) km or 7770 m (SCB1 for 12 km 380 m or 12.38(0) km or 12380 m)	Ex

Question	Working	Answer	Mark	Notes	Type
7	$3 \times 1.65 = 4.95$ $2 \times 4.20 = 8.40$ $1 \times 0.89 = \underline{0.89}$ $\quad\quad\quad 14.24$ $20 - 14.24 = 5.76$	5.76	4	M1 $3 \times 1.65 (=4.95)$ or $2 \times 4.20 (=8.40)$ or $20 - 0.89 (= 19.11)$ oe M1 for adding all 3 items or a total of 14.24 or $20 - (2 \text{ of "4.95", "8.40", } 0.89)$ M1 for $20 - "14.24"$ or $20 - 0.89 - "4.95" - "8.40"$ A1 cao (SCB2 for 13.26, SCB1 for 6.74)	Ex
8	(a)	530	1	B1 cao	Cl
	(b)	5.7	1	B1 cao	Cl
9	(a)	Thursday	1	B1 for Thursday or Thu(rs)	Cl
	(b)	10th November	2	B2 for 10(th) November (2019) or for 10/11(/19) (B1 for continuing the table to 31st October (and no 32) or for 10 <sup>th</sup> alone or with another month name) (SCB1 for 11 <sup>th</sup> November)(ignore any ref to day)	Gr
10		864	2	M1 for $12 \times 8 \times 9$ oe eg $96 \times 9$ A1	Gr
11	(a)	A fully correct bar chart including labels on horizontal axis	3	B1 for correct labels for film type on horizontal axis or key given B2 for all frequencies correct (B1 for 3 frequencies correct) [NB: condone bars of varying widths]	Ex 1 clip
	(b)	27	1	B1ft from incorrect bars	

Question	Working	Answer	Mark	Notes	Type
12	(a)		2	B2 for short hand between 7 and 8 (condone short hand on 7) and for long hand pointing at 4 (B1 for hands the wrong way round or the same length but in the correct positions or for one hand in the correct place ie short hand pointing between 7 and 8 (condone 7) or long hand pointing to 4)	G one clip
	(b)		2	B2 for ten past 6 in the evening or 1810 oe condone 1810 pm (B1 for a correct time with no reference to afternoon/evening)	
13	(a)		1	B1 allow Q	Cl
	(b)		1	B1 allow M	Cl
	(c)		1	B1 allow T and P	Cl
14		27	2	M1 for $1.63 \div 6 (= 0.27(166\dots))$ or $163 \div 6 (=27.1(66\dots))$ A1	Gr
15		93	3	M1 for $3.5 \times 6 (= 21)$ or $4 \times 18 (= 72)$ or $10 \times 3.5 (= 35)$ or $4 \times 14.5 (= 58)$ or $18 \times 10 (= 180)$ or $6 \times 14.5 (= 87)$ M1 for a fully correct method to find area, eg $4 \times 18 + 3.5 \times 6$ or $18 \times 10 - 6 \times 14.5$ oe A1	Ex



Question	Working	Answer	Mark	Notes	Type
16		302.25	3	M1 for $783 - 690 (=93)$ [look in table] M1 for "93" $\times 3.25$ A1 (SCB1 for 4787.25 or 2544.75 or 2242.5(0))	Ex