Pearson
Edexcel

Mark Scheme

Summer 2023

Pearson Edexcel Level 1 Award
In Numbers and Measures (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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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. 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.

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)		Luxseat	1	B1 or L or Lux oe as long as meaning is clear
	(b)		649	1	B1 cao
	(c)		Resteasy	1	B1 for Resteasy or R oe as long as meaning is clear
2	(a)		35.2	1	B1 accept $\frac{176}{5}$
	(b)		55.8	1	B1 accept $\frac{279}{5}$
	(c)		657	1	B1 cao
3	(a)		Arrow pointing at 237	1	B1 for unambiguous indicator at 237 on the scale (eg arrow on 3rd notch before 240)
	(b)		374	1	B1 cao

Question		Working	Answer	Mark	Notes
4		4 × 2.39 = 9.56 3 × 1.19 = 3.57 1 × 0.75 = 0.75 13.88 20 – 13.88 = 6.12	6.12	4	M1 4 × 2.39 (=(£)9.56) **or** 4 × 239 (=956) **or** 3 × 1.19 ((£)3.57) **or** 3 × 119 (=357) **or** 20 – (one of 0.75, 4 × 2.39, 3 × 1.19) **or** 19.25 or 10.44 or 16.43 M1 for adding all 3 items (with consistent units) **or** a total of 13.88 or 1388 **or** 20 − (two of 0.75, 4 × 2.39, 3 × 1.19) (consistent units) **or** 9.69 or 15.68 or 6.87 M1 for an answer of 612 **or** 20 – "13.88" or 20 – "9.56" – "3.57" – "0.75" oe (with consistent units) A1 SCB2 for 15.67 (SCB1 for 4.33)
5			420	2	M1 for 14 × 5 × 6 oe eg 14 × 30 A1

Question		Working	Answer	Mark	Notes
6	(a)		0.35	1	B1 cao
	(b)		$\frac{9}{10}$	1	B1 oe eg $\frac{90}{100}$
	(c)		$\frac{16}{17}$	1	B1 oe
	(d)		210	2	M1 for $\frac{3}{8} \times 560$ oe or 560 ÷ 8 (= 70) or 3 × 560 (= 1680) A1 cao
	(e)		279	2	M1 for a method to calculate 45% of 620 either directly eg 0.45 × 620 or 4.5 × 62 or 45 × 6.2 oe **or** by partitioning eg 1% = 6.2 and 45% = 45 × 6.2 or 62 + 62 + 62 + 62 + 31 or 4 × 62 + 5 × 6.2 **or** for an answer of 341 or 899 A1

Question		Working	Answer	Mark	Notes
7	(a)		4 hours 28 minutes	2	M1 for 268 ÷ 60 (= 4.46(6...)) or for adding 60's to at least 240 with at most one error or subtracting 4 60's from 268 with at most one error or an answer including 4 hours A1 cao
	(b)		7 m 29 cm or 7.29 m or 729 cm	2	M1 for 5 + 3 – 2 (=6) or a total including 6 m or 83 + 72 − 26 (=129) or a total including 29 cm **or** M1 for writing all measurements in cm and 583 + 372 (=955) or 583 – 226 (=357) or 372 – 226 (=146) **or** M1 for writing all measurements in m and 5.83 + 3.72 (=9.55) or 5.83 – 2.26 (=3.57) or 3.72 – 2.26 (=1.46) **or** M1 for 729 or 7.29 A1 for 7 m 29 cm or 7.29 m or 729 cm or $\frac{729}{100}$ m (SCB1 for 11.81 m or 11 m 81 cm or 1181 cm)

Question		Working	Answer	Mark	Notes
8	(a)		Monday	1	B1 for Monday or Mon or M
	(b)		9th December	2	M1 for 9th or 9th of any month or clear method to find required date eg continuing table to at least 30th November (with no 31) A1 for 9th December (2020) or for 9/12(/20) oe (SCB1 for 8/12 oe)
9			29	2	M1 for 2.29 ÷ 8 (=0.28(6...)) or 229 ÷ 8 (=28.(6...)) or an answer of 28 or 0.28 or 0.29 A1 allow £0.29p
10			71	3	M1 for a calculation for a correct relevant area eg 3 × 5 (=15) or 14 × 4 (=56) or 9 × 14 (=126) or 5 × 11 (=55) or 3 × 9 (=27) or 4 × 11 (=44) M1 for a fully correct method eg 3 × 5 + 4 × 14 oe A1
11			£4.16 or 416p	2	M1 for 12.95 – 8.79 or 1295 – 879 or showing all steps to add on from 879 to 1295 or 8.79 to 12.95 or digits 416 with incorrect or no units

Question		Working	Answer	Mark	Notes
					A1 for £4.16 or 416p (either answer – correct units must be present)
12			48	2	M1 for a method to calculate 3% of 1600 either directly eg 0.03 × 1600 or 0.3 × 160 or 3 × 16 oe **or** by partitioning eg 1% = 16 and 3% = 16 × 3 or 16 + 16 + 16 **or** for an answer of 1552 or 1648 A1 cao
13	(a)		36	1	B1 cao
	(b)		6	1	B1 cao
	(c)		36, 17	1	B1 written in either order
14	(a)		Hands positioned correctly	2	B1 for long hand shown at 3 B1 for short hand between 8 and 9 with hand nearer to 8 than 9 (accept if hand points to 8) SC B1 for hands of equal length or hands the wrong way round but in the correct places.

Question		Working	Answer	Mark	Notes
	(b)		4.20	1	B1 for 4.20 (pm) or 16 20 or for ‘twenty past four’ oe
15			A fully correct bar chart including labels on horizontal axis	3	B1 for correct labels for ice cream type on horizontal axis or key given (allow initials or abbreviations as long as meaning is clear) B2 for all frequencies correct (B1 for 3 or 4 frequencies correct or 5 correct frequencies but incomplete bars) [NB: condone bars of different widths]
16			23.85	4	M1 (142 – 120) × 12 (=264) or (142 – 120) × 0.12 (=2.64) or (487 – 300) × 6 (=1122) or (487 – 300) × 0.06 (=11.22) oe M1 (142 – 120) × 12p + (487 – 300) × 6p oe eg 2.64 + 11.22 (=13.86) or 264 + 1122 (=1386) units must be compatible M1 (dep on M2) for “2.64” + “11.22” + 9.99 or “264” + “1122” + 999 or 2385 units must be compatible A1 cao SCB2 for 387 or 3.87 or 5625 or 56.25 (SCB1 for 4626 or 46.26)

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