# Mark Scheme (Results) 

January 2018

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

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## NOTES ON MARKI NG PRI NCI PLES

## 1 Types of mark

M marks: method marks
A marks: accuracy marks
B marks: unconditional accuracy marks (independent of $M$ marks)

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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



| PE | M1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Question |  | Working | Answer | Mark | Notes |
| 5 | (a) |  | 0.2 | 1 | B1 cao |
|  | (b) | $(320 \div 8) \times 3$ | 120 | 2 | M1 for $320 \div 8(=40)$ or $320 \times 3(=960)$ oe A1 cao |
|  | (c) |  | $\frac{9}{11}$ | 1 | B1 oe fraction |
|  | (d) | eg $0.15 \times 280,28+14$, etc | 42 | 2 | M1 for $0.15 \times 280$ oe or for an answer of 322 or 238 A1 cao |
| 6 | (a) |  | 57.5(0) | 1 | B1 cao |
|  | (b) |  | $60$ | 2 | M1 for $69 \div 1.15$ or a total in pounds that amounts to 60 or a total in euros that amounts to 69 eg $57.50+11.50=69$ oe A1 cao |
|  | (c) | $\begin{aligned} & \mathrm{eg} \\ & 115+57.50+11.50+2 \times 2.30 \text { or } \\ & 1.15 \times 164 \end{aligned}$ | 188.6(0) | 2 | M1 for $164 \times 1.15$ or $115+57.50+11.50+2 \times 2.30$ oe A1 cao |
| 7 |  | $\begin{aligned} & 12 \times 23+4.5 \times 12 \\ & =276+54 \\ & =330 \end{aligned}$ | 330 | 3 | M1 for method to find correctly the area of one rectangle eg $12 \times 23(=276)$ or $4.5 \times 12(=54)$ <br> M1 for a complete method that should result in the correct answer <br> A1 cao |

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| Question | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 8 | $\begin{aligned} & 1.25 \div 7(=0.17(857 \ldots)) \\ & \text { or } 125 \div 7(=17 .(857 \ldots) \end{aligned}$ | 18 | 2 | M1 for $1.25 \div 7(=0.17(857 \ldots))$ or $125 \div 7(=17 .(857 \ldots))$ or for an answer of 0.18 (p) <br> A1 for 18 cao |
| $9$ <br> (a) <br> (b) | $\begin{aligned} & 2 \mathrm{~h} 35 \mathrm{~m} \\ & \frac{1 \mathrm{~h} 40 \mathrm{~m}}{3 \mathrm{~h} 75 \mathrm{~m}} \\ & \frac{\text { or } 155 \mathrm{~m}}{\text { or }} \end{aligned} \quad \begin{array}{r} \frac{1 \mathrm{~h} 40 \mathrm{~m}}{4 \mathrm{~h} 15 \mathrm{~m}} \\ 255 \end{array}$ | $\begin{gathered} 2015 \text { or } 8.15 \\ \mathrm{pm} \end{gathered}$ $255$ | $2$ <br> 3 | B2 for fully correct time that incorporates pm, eg 8.15 pm or in 24 hour format eg 2015 or a quarter past eight in the evening <br> (B1 for 8 15am or quarter past eight in the morning or a correct time with no reference to evening) <br> M1 for $(2+1)$ hours and $(35+40)$ minutes or for $(2 \times 60+35(=155))$ or $(1 \times 60+40(=100))$ or for 3 hours 75 mins or for 4 hours 15 mins [ 3 hrs 75 mins or 4 hrs 15 mins must have units] <br> M1 for $(2+1) \times 60+(35+40)$ minutes or for $(2 \times 60+35)+(1 \times 60+40)$ or for $(4 \times 60+15)$ <br> A1 cao |


| PAPER: ANM10_1A |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Question |  | Working | Answer | Mark | Notes |
| 10 | (a)(i) |  | grams | 2 | B1 for g or grams or mg or milligrams or kg or kilograms |
|  | (ii) |  | centimetres or |  | B1 or cm or mm or m |
|  | (b) |  | 3500 |  | B1 cao |
|  | (c) | 4 m 63 cm $\frac{1 \mathrm{~m} 42 \mathrm{~cm}}{6 \mathrm{~m} 5 \mathrm{~cm}}+\frac{6 \mathrm{~m} 5 \mathrm{~cm}}{}+\frac{2 \mathrm{~m} 70 \mathrm{~cm}}{3 \mathrm{~m} 35 \mathrm{~cm}}$ | $\begin{gathered} 3 \mathrm{~m} 35 \mathrm{~cm} \text { or } \\ 3.35 \mathrm{~m} \\ \text { or } 335 \mathrm{~cm} \end{gathered}$ | 2 | M1 for method to show $4+1-2$ or $63+42-70$ or a total including 35 cm or for method to subtract 2 m 70 cm from their total with decomposition to allow subtraction of 70 or for an answer of 335 Or |
|  |  |  |  |  | M1 for writing all measurements in cm and method to add 463 and 142 or sight of total of 605 or method to subtract |
|  |  | $463+142-270$ or |  |  | 270 from their total with decomposition to allow subtraction of the 7 or for an answer of 335 |
|  |  | Or |  |  | Or |
|  |  | $4.63+1.42-2.7(0)$ |  |  | M1 for writing all measurements in m and intention to add 4.63 and 1.42 or sight of total of 6.05 or intention to subtract 2.7(0) from their total with decomposition to allow subtraction of the 7 or for an answer of 3.35 |
|  |  |  |  |  | A1 for 3 m 35 cm or 3.35 m or 335 cm |
|  |  |  |  |  | SCB1 for 8 m 75 cm or 8.75 m or 875 cm |

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| Question | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| (b) <br> (c) |  | $\begin{gather*} 0924  \tag{a}\\ 0720 \\ 33 \end{gather*}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | B1 cao <br> B1 cao <br> B1 cao |
| $12$ <br> (b) |  | $\begin{gather*} 138-142  \tag{a}\\ \text { A line } 7 \mathrm{~cm} \\ \text { long } \end{gather*}$ | 1 <br> 1 | B1 any answer in range <br> B1 allow a line 6.8 cm to 7.2 cm |
| 13 | $7.2+3.7+7.2+3.7$ | 21.8 | 2 | M1 for a fully correct method to find the perimeter <br> A1 cao |
| 14 | $\begin{aligned} & -\frac{5820}{} \\ & \frac{5357}{463} \\ & 463 \times 0.13=60.19 \\ & 60.19+23.40=83.59 \\ & \text { Or } \\ & 5820 \times 0.13-5357 \times 0.13 \\ & =60.19 \\ & 60.19+23.40=83.59 \end{aligned}$ | 83.59 | 4 | M1 for $5820-5357$ (= 463) <br> M1 for " 463 " $\times 0.13$ (= 60.19 )oe even if " 463 " is $5820+5357$ <br> M1 for adding their cost of units and the quarterly charge <br> A1 for 83.59 <br> Or <br> M1 for $5820 \times 0.13(=756.6(0))$ oe <br> or $5357 \times 0.13(=696.41)$ oe <br> M1 for "756.6" - "696.41" (= 60.19) <br> M1 for adding their cost of units and the quarterly charge <br> A1 for 83.59 <br> SCB2 for 1476.41 |

## Section B




| PAPER: ANM10_1B |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Question |  | Working | Answer | Mark | Notes |
| 4 |  |  | kiwi completed correctly | 1 | B1 cao |
|  | (b) |  | orange \& grape | 1 | B1 cao |
|  | (c) | $2+3+7+5+3+4$ | 24 | 2 | M1 for evidence of adding frequencies or 20 A1 ft from bar chart |
| 5 | (a) | 71, 541, 638, 682, 782 | Correct order | 1 | B1 cao |
|  | (b) | $\frac{1}{12}, \frac{1}{4}, \frac{3}{8}, \frac{3}{5}$ | Correct order | 1 | B1 cao |
|  | (c) | 11\%, 14\%, $21 \%, 29 \%, 47 \%$ | Correct order | 1 | B1 (allow without \%) |
|  | (d) | 48p, 96p, £2.81, 326p, £4.06 | Correct order | 1 | B1 (ignore units) |
| 6 |  |  | C or $£ 30$ | 1 | B1 cao |
| 7 |  | $7 \times 3 \times 2$ | 42 | 2 | $\begin{aligned} & \text { M1 for } 7 \times 3 \times 2 \text { oe } \\ & \text { A1 cao } \end{aligned}$ |
| 8 | (a) |  | Friday | 1 | B1 allow F, Fri, Friday |
|  | (b) |  | 2nd June | 2 | M1 for filling in spaces or other method to get to May 31st or for an answer of 3rd June or 2nd May <br> A1 for (Saturday) 2nd June (2018) |


| PAPER: ANM10_1B | Working | Answer | Mark | Notes |  |
| :---: | :---: | :---: | :---: | :---: | :--- |
| Question |  |  | 7 | 1 | B1 cao |
| 9 | (a) |  | $18 \& 7$ | 1 | B1 cao |
| 10 | (b) |  | 4 | 1 | B1 4 or +4 |
|  | (a) |  | -2 | 1 | B1 cao |
|  | (b) |  | -4 | 1 | B1 cao |

