## GAUTENG DEPARTMENT OF EDUCATION PREPARATORY EXAMINATION <br> 2020 <br> MARKING GUIDELINES

MATHEMATICAL LITERACY P1 (10601)

| Codes | Explanation |
| :---: | :--- |
| $\mathbf{M}$ | Method |
| $\mathbf{M A}$ | Method with Accuracy |
| $\mathbf{M C A}$ | Method with Continuous Accuracy |
| $\mathbf{C A}$ | Consistent Accuracy |
| $\mathbf{A}$ | Accuracy |
| $\mathbf{C}$ | Conversion |
| $\mathbf{D}$ | Define |
| $\mathbf{J}$ | Justification / Reason / Explain |
| $\mathbf{S}$ | Simplification |
| $\mathbf{R T} / \mathbf{R D} / \mathbf{R G}$ | Reading from a table OR a graph OR a diagram OR a map <br> OR a plan |
| $\mathbf{F}$ | Choosing the correct formula |
| $\mathbf{S F}$ | Substitution in a formula |
| $\mathbf{O}$ | Opinion |
| $\mathbf{P}$ | Penalty, e.g. for no units, incorrect rounding-off, etc. |
| $\mathbf{R}$ | Rounding-off |
| $\mathbf{N P}$ | No penalty for rounding-off OR omitting units |

## KEY TO TOPIC SYMBOL:

F = Finance; $\mathbf{M}=$ Measurement; $\mathbf{M P}=$ Maps, Plans and other representations;
DH = Data Handling; $\mathbf{P}=$ Probability

## 15 pages

## QUESTION 1

| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 1.1 |  |  |  |
| 1.1.1 | Value Added Tax $\checkmark \checkmark$ A | 2 A correct wording | F1 |
| 1.1.2 | $\begin{aligned} & \text { R75,90 } \times \frac{15}{100} \checkmark \mathrm{MA} \\ & =\text { R11,385 } \\ & =\text { R11,39 } \checkmark \mathrm{A} \end{aligned}$ | 1 MA multiply by $15 \%$ or 0,15 1 A answer <br> No penalty for rounding | F1 |
| 1.1.3 | $\begin{aligned} & \mathrm{R} 13,99 \times \frac{9,5}{100} \checkmark \mathrm{MA} \\ & =\mathrm{R} 1,32905 \\ & =\mathrm{R} 13,99+\mathrm{R} 1,32905 \\ & =\mathrm{R} 15,31905 \\ & =\mathrm{R} 15,32 \checkmark \mathrm{~A} \end{aligned}$ <br> OR $\mathrm{R} 13,99 \times \frac{109,5}{100} \checkmark \mathrm{MA}$ $\begin{aligned} & =\mathrm{R} 15,31905 \\ & =\mathrm{R} 15,32 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA Multiply by $9,5 \%, 0,095$, $109,5 \%$ or 1,095 1 A answer <br> No penalty for rounding | F1 |
| 1.1.4 | $\begin{aligned} & \text { R13 } 500 \times \frac{1}{100} \checkmark \mathrm{MA} \\ & =\mathrm{R} 135,00 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA multiply by $1 \%$ or 0,01 1 A correct answer | F1 |
| 1.1.5 | Gross Income is the income you receive before any deductions, for example pension fund, tax or UIF. $\checkmark \checkmark$ J <br> OR <br> The sum of all wages, salaries or earnings before any deductions or taxes. | 2 J explanation | F1 |


| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 1.1.6 | $\begin{array}{ll} \frac{8,5 \%}{365} \checkmark \mathrm{MA} \\ & \\ =0,023287671 \% \\ =0,0233 \% & \checkmark \mathrm{~A} \end{array}$ | 1 MA divide by 365 <br> 1 A correct answer | F1 |
| 1.1.7 | $\begin{aligned} & \text { R2 } 000 \times \frac{0,0233}{100} \checkmark \mathrm{MCA} \\ & =\mathrm{R} 0,466 \checkmark \mathrm{CA} \end{aligned}$ | CA from Q.1.1.6 <br> 1 MCA multiply by $0,0233 \%$ or 0,000233 <br> 1CA answer | F1 |
| 1.2 |  |  |  |
| 1.2.1 | $\begin{aligned} & 800 \text { inches x } 2,5 \mathrm{~cm} \checkmark \mathrm{MA} \\ & =2000 \mathrm{~cm} \checkmark \mathrm{~A} \end{aligned}$ | 1 MA multiply by 2,5 1 A answer | M1 |
| 1.2.2 | $\begin{aligned} & \text { Perimeter }=(2 \times \text { length })+(2 \times \text { width }) \\ & =(2 \times 30 \mathrm{~m})+(2 \times 20 \mathrm{~m}) \checkmark \mathrm{SF} \\ & =60 \mathrm{~m}+40 \mathrm{~m} \\ & =100 \mathrm{~m} \checkmark \mathrm{CA} \end{aligned}$ | 1 SF substitute in formula 1 CA answer | M1 |
| 1.2.3 | $\begin{aligned} & \frac{30 \mathrm{~m}}{1,5 \mathrm{~m}} \checkmark \mathrm{MA} \\ & =20 \text { concrete slabs } \checkmark \mathrm{A} \end{aligned}$ | 1 MA divide by 1,5 1 A answer | M1 |
| 1.2.4 | $\begin{aligned} & { }^{\circ} \mathrm{C}=\frac{\mathbf{5}}{\mathbf{9}}\left({ }^{\circ} \mathrm{F}-\mathbf{3 2}\right) \\ & { }^{\circ} \mathrm{C}=\frac{5}{9}\left(90^{\circ}-32\right) \checkmark \mathrm{SF} \\ & =32,2222222 \ldots . . \\ & =32^{\circ} \checkmark \mathrm{R} \end{aligned}$ | 1 SF substitute in formula 1 R correct rounded answer | M1 |
| 1.3 |  |  |  |
| 1.3.1 | $17 \checkmark \checkmark$ A | 2 A answer | DH1 |
| 1.3.2 | $\frac{2}{15} \text { or } 0,134 \text { or } 13,34 \% \quad \checkmark \checkmark \mathrm{~A}$ | 2 A answer (2) | P1 |
| 1.3.3 | $\begin{aligned} & \text { Range }=\mathrm{Max}-\mathrm{Min} \\ & =45-9 \checkmark \mathrm{MA} \\ & =36 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA correct values 1 A answer | DH1 |
| 1.3.4 | $\begin{aligned} & \frac{9}{50} \times 100 \checkmark \mathrm{MA} \\ & =18 \% \checkmark \mathrm{~A} \end{aligned}$ | 1 MA correct values 1 A answer | DH1 |
|  |  |  | [30] |

## QUESTION 2

| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 2.1 |  |  |  |
| 2.1.1 | $\begin{aligned} & \mathrm{R} 7,99 \times 3,8 \mathrm{~kg} \checkmark \mathrm{MA} \\ & =\mathrm{R} 30,36 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA multiplication 1 A answer | F1 |
| 2.1.2 | $\begin{aligned} & \text { Cost price }=\frac{\mathrm{R720}}{120} \checkmark \mathrm{MA} \\ & \text { Cost price }=\mathrm{R} 6,00 \quad \checkmark \mathrm{~A} \end{aligned}$ | 1 MA division 1 A answer | F1 |
| 2.1.3 | $\begin{aligned} \text { Income } & =\mathrm{R} 720,00 \times 1,2 \checkmark \mathrm{MA} \\ & =\mathrm{R} 864,00 \\ & =\text { R864,00 } \times 2 \checkmark \mathrm{M} \\ & =\mathrm{R} 1728,00 \checkmark \mathrm{CA} \end{aligned}$ <br> OR $\begin{aligned} \text { Income } & =\mathrm{R} 720,00 \times \frac{20}{100} \checkmark \mathrm{MA} \\ & =\mathrm{R} 144,00 \\ & =\mathrm{R} 720,00+\mathrm{R} 144,00 \\ & =\mathrm{R} 864,00 \\ & =\mathrm{R} 864,00 \times 2 \checkmark \mathrm{M} \\ & =\mathrm{R} 1728,00 \checkmark \mathrm{CA} \end{aligned}$ <br> OR $\begin{aligned} \text { Income } & =\mathrm{R} 720,00 \times \frac{120}{100} \checkmark \mathrm{MA} \\ & =\mathrm{R} 864,00 \\ & =\mathrm{R} 864,00 \times 2 \checkmark \mathrm{M} \\ & =\mathrm{R} 1728,00 \checkmark \mathrm{CA} \end{aligned}$ | 1 MA multiply by 1,2 <br> 1 M multiply by 2 <br> 1 CA answer <br> 1 MA multiply by $\frac{20}{100}$ <br> 1 M multiply by 2 <br> 1 CA answer <br> 1 MA multiply by $\frac{120}{100}$ <br> 1 M multiply by 2 <br> 1 CA answer | F1 |
| 2.1.4 | $\begin{aligned} & \% \text { Increase }=\frac{\text { Difference between amounts }}{\text { Original amount }} \times 100 \\ & \quad \checkmark \mathrm{SF} \\ & =\frac{\mathrm{R} 23,25-\mathrm{R} 15,50}{\mathrm{R} 15,50} \times 100 \\ & =\frac{\mathrm{R} 7,75}{\mathrm{R} 15,50} \times 100 \\ & =50 \% \quad \checkmark \mathrm{~A} \end{aligned}$ | 1 SF substitute in formula 1 A answer | F2 |


| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 2.2 |  |  |  |
| 2.2.1 | $\begin{aligned} & \text { Years }=\frac{60 \text { months }}{12 \text { months }} \checkmark \mathrm{MA} \\ & =5 \text { years } \checkmark \mathrm{A} \end{aligned}$ | 1 MA divide by 12 1 A answer Answer only, full marks | F1 |
| 2.2.2 | $\begin{aligned} \text { Deposit } & =\text { R174 } 900 \times \frac{10}{100} \checkmark \mathrm{MA} \\ & =\mathrm{R} 17490 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA multiply by $10 \%$ or 0,1 1 A answer $\begin{array}{\|l\|} \hline \text { Answer only, full marks } \\ \hline \end{array}$ | F1 |
| 2.2.3 | $\begin{aligned} \text { Loan amount } & =\text { R174 } 900-\text { R17 } 490 \checkmark \mathrm{M} \\ & =\text { R157 } 410 \checkmark \mathrm{CA} \end{aligned}$ | CA from Q 2.2.2 <br> 1 M subtract deposit <br> 1 CA answer | F1 |
| 2.2.4 |  | CA from Q 2.2.3 <br> 1 MCA multiply by $14 \%$ or 0,14 <br> 1 M multiply with 5 <br> 1 CA answer | F1 |
| 2.2.5 | Monthly instalment: $\begin{aligned} & =\frac{\mathrm{R} 267597}{60} \checkmark \mathrm{M} \\ & =\mathrm{R} 4459,95 \checkmark \mathrm{CA} \end{aligned}$ | 1 M divide by 60 1 CA answer | F1 |


| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 2.3 |  |  |  |
| 2.3.1 | ```Total expenses 2017/18: R251, 1 bn + R205,4 bn + R259, 4 bn + R196,3 bn + R200, \(1 \mathrm{bn}+\mathrm{R} 200,8 \mathrm{bn}+\mathrm{R} 194,2 \mathrm{bn}+\) R64,0 bn \(\checkmark \mathrm{MA}\) \(=\) R1 571,3 bn \(\checkmark \mathrm{A}\) Total expenses 2018/19: R351, 1 bn + R259,4 bn + R205,4 bn + R200,8 bn + R200, \(1 \mathrm{bn}+\mathrm{R} 196,3 \mathrm{bn}+\mathrm{R} 194,2 \mathrm{bn}+\) R64,0 bn \(\checkmark\) MA \(=\) R1 671,3 bn \(\checkmark \mathrm{A}\) Difference \(=\) R1 671,3 bn - R1 571,3 bn \(\checkmark \mathrm{M}\) \(=\) R100 bn \(\checkmark \mathrm{CA}\)``` | 1 MA addition 1 A answer 1 MA addition 1 A answer 1 M subtraction 1 CA answer | F2 |
| 2.3.2 | $\begin{aligned} & \text { Social Development } \checkmark \mathrm{A} \\ & \text { R259,4 bn }- \text { R205,4 bn } \checkmark \mathrm{MA} \\ & =\mathrm{R} 54 \mathrm{bn} \checkmark \mathrm{~A} \end{aligned}$ | 1 A answer 1 MA subtraction 1 A answer | F2 |
| 2.3.3 | $\begin{aligned} & \% \text { Decrease }=\frac{\text { New Amount-Old Amount }}{\text { Old Amount }} \times 100 \checkmark \mathrm{~F} \\ & \quad \begin{array}{l} \checkmark \mathrm{SF} \\ = \\ \quad \frac{\mathrm{R} 205,4 \mathrm{bn} \text {-R } 259,4 \mathrm{bn}}{\mathrm{R} 259,4 \mathrm{bn}} \times 100 \\ \mathrm{SF} \end{array} \\ & =\frac{-\mathrm{R} 54 \mathrm{bn}}{\mathrm{R} 259,4 \mathrm{bn}} \times 100 \\ & =-20,82 \% \quad \mathrm{CA} \end{aligned}$ | 1 F formula 1 SF numerator 1 SF denominator 1 CA answer | F2 |
|  |  |  | [33] |

## QUESTION 3

| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 3.1 |  |  |  |
| 3.1.1 | Perimeter is the total distance around a two dimensional (2D) shape. $\checkmark \checkmark \mathrm{J}$ <br> OR <br> Perimeter is the total length of all the sides of a two dimensional (2D) shape. | 2 J explanation | M1 |
| 3.1.2 | $\begin{aligned} & \text { Total to fit }=\frac{\text { Height of rectangular prism }}{\text { Height of one ice cream sandwich }} \\ & \text { Total }=\frac{17 \mathrm{~cm}}{3 \mathrm{~cm}} \checkmark \mathrm{M} \\ & \text { Total }=5,66666 \ldots \\ & \text { Total }=5 \checkmark \mathrm{R} \end{aligned}$ | 1 M divide by 3 cm 1 R correct rounding | M2 |
| 3.1.3 | $\begin{aligned} & \text { Volume }=\pi \times(\text { radius })^{2} \times \text { height } \checkmark \mathrm{F} \\ & \text { Volume }=3,142 \times(3,5 \mathrm{~cm})^{2} \times 3 \mathrm{~cm} \checkmark \mathrm{SF} \\ & \text { Volume }=115,4685 \\ & \text { Volume }=115,47 \checkmark \mathrm{CA} \mathrm{~cm} \\ & \\ & \checkmark \mathrm{U} \end{aligned}$ | 1 F correct formula 1 SF substitute in formula 1 CA answer 1 U unit | M2 |


| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 3.1.4 | $\begin{aligned} & \text { BMI }=\frac{\text { Mass in } \mathrm{kg}}{(\text { Height in } \mathrm{m})^{2}} \\ & 29,38 \mathrm{~kg} / \mathrm{m}^{2}=\frac{\text { Mass in } \mathrm{kg}}{(1,65 \mathrm{~m})^{2}} \checkmark \mathrm{SF} \\ & \text { Mass in } \mathrm{kg}=29,38 \mathrm{~kg} / \mathrm{m}^{2} \times(1,65 \mathrm{~m})^{2} \checkmark \mathrm{M} \\ & \text { Mass in } \mathrm{kg}=79,98705 \mathrm{~kg} \\ & \text { Mass in } \mathrm{kg}=80 \mathrm{~kg} \checkmark \mathrm{R} \\ & \text { OR } \\ & \text { BMI }=\frac{\text { Mass in } \mathrm{kg}}{(\mathrm{Height} \text { in } \mathrm{m})^{2}} \\ & \text { Mass in } \mathrm{kg}=\mathrm{BMI} \mathrm{x}(\mathrm{Height} \text { in } \mathrm{m})^{2} \checkmark \mathrm{M} \\ & \text { Mass in } \mathrm{kg}=29,38 \mathrm{~kg} / \mathrm{m}^{2} \times(1,65 \mathrm{~m})^{2} \checkmark \mathrm{SF} \\ & \text { Mass in } \mathrm{kg}=79,98705 \mathrm{~kg} \\ & \text { Mass in } \mathrm{kg}=80 \mathrm{~kg} \checkmark \mathrm{R} \end{aligned}$ | 1 SF correct substitution in formula 1 M manipulating formula, making Mass the subject of the equation 1 R correct rounding <br> 1 SF correct substitution in formula 1 M manipulating formula, making Mass the subject of the equation 1 R correct rounding | M2 |
| $\begin{gathered} 3.1 .5 \\ \text { (a) } \end{gathered}$ | $\begin{aligned} & \text { Average speed }=\frac{\text { Distance }}{\text { Time }} \\ & =\frac{450 \mathrm{~m}}{6 \mathrm{~min}} \checkmark \mathrm{SF} \\ & =75 \mathrm{~m} / \mathrm{min} \quad \checkmark \mathrm{~A} \end{aligned}$ | 1 SF substitute in formula 1 A answer | MP1 |
| $3.1 .5$ <br> (b) | $\begin{aligned} & \text { Time: } \\ & =16: 40+00: 06+00: 12 \quad \text { MA } \\ & =16: 58 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA addition 1 A answer <br> Answer only, full marks | MP2 |


| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 3.1.6 | Amount of water wasted: <br> $=12 \mathrm{ml} \times 60 \mathrm{~min} \times 24 \mathrm{hrs} \checkmark \mathrm{MA}$ <br> $=17280 \mathrm{ml}$ per day $\checkmark \mathrm{A}$ $\begin{aligned} & \text { Conversion }=\frac{17280 \mathrm{ml}}{1000} \checkmark \mathrm{C} \\ & =17,28 \text { litres } \checkmark \mathrm{CA} \end{aligned}$ <br> OR <br> Amount of water wasted: $\begin{aligned} & =12 \mathrm{ml} \times 1440 \mathrm{~min} \checkmark \mathrm{MA} \\ & =17280 \mathrm{ml} \text { per day } \checkmark \mathrm{A} \end{aligned}$ $\begin{aligned} & \text { Conversion }=\frac{17280 \mathrm{ml}}{1000} \checkmark \mathrm{C} \\ & =17,28 \text { litres } \checkmark \mathrm{CA} \end{aligned}$ <br> OR <br> Amount of water wasted: $\begin{aligned} & =0,012 \times 1440 \checkmark \checkmark \mathrm{M} \checkmark \mathrm{MA} \\ & =17,28 \text { litres } \mathrm{CA} \end{aligned}$ | 1 MA multiplication <br> 1 A total millilitres wasted per day <br> 1 C conversion <br> 1 CA answer <br> 1 MA multiplication <br> 1 A total millilitres wasted per day <br> 1 C conversion <br> 1 CA answer <br> 2 M for calculating 0,012 <br> 1 MA multiplication <br> 1 CA answer | MP2 |
| 3.2 |  |  |  |
| 3.2.1 | $\begin{aligned} & \text { Intervals: } \\ & =06: 00-05: 30 \\ & =30 \mathrm{~min} \checkmark \checkmark \mathrm{RT} \end{aligned}$ | 2 RT correct answer <br> Any column/times used in table to calculate 30 $\boldsymbol{\operatorname { m i n }}=$ full marks | MP1 |



## QUESTION 4



| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 4.2.3 | ```\(17,5 \mathrm{~cm}: 3,9 \mathrm{~km} \checkmark \mathrm{~A}\) \(17,5 \mathrm{~cm}\) : \(390000 \mathrm{~cm} \checkmark \mathrm{C}\) \(\frac{17,5}{17,5}: \frac{390000}{17,5} \checkmark \mathrm{M}\) 1:22285,71429 \(1: 20000 \checkmark \mathrm{R}\) OR \(\checkmark\) A \(\frac{3,9 \mathrm{~km}}{17,5 \mathrm{~cm}} \times 100000 \checkmark \mathrm{C}\) \(\checkmark\) A 1:22285,71429 \(1: 20000 \checkmark \mathrm{R}\) OR \(17,5 \mathrm{~cm}: 3,9 \mathrm{~km} \checkmark \mathrm{~A}\) \(\frac{17,5 \mathrm{~cm}}{17,5}: \frac{3,9 \mathrm{~km}}{17,5} \checkmark \mathrm{M}\) \(1 \mathrm{~cm}: 0,223 \mathrm{~km} \checkmark \mathrm{CA}\) \(1 \mathrm{~cm}: 0,20 \mathrm{~km} \checkmark \mathrm{R}\)``` | CA from Q.4.2.2 <br> 1 A correct ratio <br> 1 C conversion <br> 1 M divide by measurement <br> 1 R correct rounding <br> CA from Q.4.2.2 <br> 1 A correct numerator <br> 1 A correct denominator <br> 1 C conversion <br> 1 R correct rounding <br> CA from Q.4.2.2 <br> 1 A correct ratio <br> 1 M divide by measurement <br> 1 CA answer <br> 1 R correct rounding <br> If last method is used, penalise learners 1 mark for not writing units in final answer | M3 |
| 4.2.4 | One unit on the map represents 20000 units in reality / on the ground. $\checkmark \checkmark$ A | 2 A correct wording | MP1 |
| 4.2.5 | R560 $\checkmark \checkmark$ A | 2 A correct road | MP1 |
|  |  |  | [24] |

## QUESTION 5

| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 5.1 |  |  |  |
| 5.1.1 | Discrete data only consists of whole numbers and continuous data consists of decimal numbers as well. $\checkmark \checkmark \mathrm{O}$ | 2 O correct explanation of both discrete and continuous data. | DH1 |
| 5.1.2 | February $\checkmark \checkmark$ A | 2 A correct month | DH1 |
| 5.1.3 | 5 months $\checkmark \checkmark$ A | 2 A correct number of months | DH1 |
| 5.1.4 | $\begin{aligned} & \text { Range }=\text { Max }- \text { Min } \\ & =8-0 \checkmark \text { MA } \\ & =8 \checkmark \mathrm{~A} \end{aligned}$ | 1 MA correct values in correct order <br> 1 A answer | DH1 |
| 5.1.5 | $5,5,7,8,12,12,15,16,16,18,18,18 \checkmark \checkmark$ A | 2 A correct arrangement | DH1 |
| 5.1.6 | $\begin{aligned} & \text { Median }=\frac{12+15}{2} \checkmark \mathrm{MCA} \\ & =13,5^{\circ} \mathrm{C} \checkmark \mathrm{CA} \end{aligned}$ | CA from Q. 5.1.5 <br> 1 MCA correct values $\div 2$ <br> 1 CA answer | DH2 |
| 5.1.7 | $\begin{aligned} & \text { Mean }=\frac{8+6+6+3+1+0+0+0+1+8+8+8}{12} \\ & =\frac{49}{12} \\ & =4,0833333 \ldots . \\ & =4 \text { days } \checkmark \mathrm{A} \end{aligned}$ | 1 MA addition or sum 1 MA divide by 12 1 A answer No penalty for rounding | DH2 |
| 5.1.8 | $\begin{aligned} & \mathrm{Q} 1=8,5^{\circ} \mathrm{C} \checkmark \mathrm{RT} \\ & \mathrm{Q} 3=16,2^{\circ} \mathrm{C} \checkmark \mathrm{RT} \\ & \mathrm{IQR}=\mathrm{Q} 3-\mathrm{Q} 1 \\ & =16,2^{\circ} \mathrm{C}-8,5^{\circ} \mathrm{C} \checkmark \mathrm{M} \\ & =7,7^{\circ} \mathrm{C} \checkmark \mathrm{CA} \end{aligned}$ | 2 RT correct values from graph 1 M subtracting in correct order 1 CA answer | DH2 |



| Q | ANSWER | EXPLANATION | LEVEL |
| :---: | :---: | :---: | :---: |
| 5.2.3 | $\begin{aligned} & \text { Mean }=\frac{3+4+3+3+0+5,8}{6} \\ & \checkmark \mathrm{MA} \\ & =\frac{18,8}{6} \\ & \quad \mathrm{MA} \\ & =3,13 \% \checkmark \mathrm{CA} \end{aligned}$ | 1 MA addition or total 1 MA correct denominator 1 A answer | DH2 |
| 5.2.4 | 15 years $\checkmark \checkmark \mathrm{A}$ | 2 A answer | DH1 |
| 5.2.5 | $\begin{aligned} & \quad \checkmark \mathrm{RT} \quad \checkmark \mathrm{RT} \\ & \text { Difference }=-11-5,8 \\ & =-16,8 \checkmark \mathrm{CA} \\ & \text { OR } \\ & \text { Difference }=5,8-(-11) \\ & =16,8 \end{aligned}$ | 2 RT correct values 1 CA answer | DH1 |
|  |  |  | [36] |

TOTAL: 150

