



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## SENIOR CERTIFICATE EXAMINATIONS

### MATHEMATICAL LITERACY P2

2017

### MARKING GUIDELINES

**MARKS: 150**

<b>Codes</b>	<b>Explanation</b>
<b>M</b>	Method
<b>MA</b>	Method with Accuracy
<b>CA</b>	Consistent Accuracy
<b>A</b>	Accuracy
<b>C</b>	Conversion
<b>D</b>	Define
<b>J</b>	Justification/Reason/Explain
<b>S</b>	Simplification
<b>RD</b>	Reading from a table OR a graph OR a diagram OR a map OR a plan
<b>F</b>	Choosing the correct formula
<b>SF</b>	Substitution in a formula
<b>O</b>	Opinion
<b>P</b>	Penalty, e.g. for no units, incorrect rounding off, etc.
<b>R</b>	Rounding Off
<b>NP</b>	No penalty for rounding OR omitting units
<b>MCA</b>	Method with consistent accuracy

**These marking guidelines consist of 15 pages.**

**KEY TO TOPIC SYMBOL:**

**F = Finance; M = Measurement; MP = Maps, plans and other representations**  
**DH = Data Handling; P = Probability.**

**QUESTION 1 [39 Marks]**

Ques	Solution	Explanation	T&L
1.1.1	$\text{Probability} = \frac{3}{15}$ $= 0,2$	1A numerator 1A denominator 1CA simplification AO (3)	P L2
1.1.2	6 members scores decreased. As a percentage $= \frac{6}{15} \times 100\%$ $= 40\%$	1A no. decreased 1MA percentage with denominator 15 1CA simplification AO (3)	D L2
1.1.3 (a)	Arranging scores in ascending or descending order: 27; 28; 30; <b>32</b> ; 34; 38; 41; <b>42</b> ; 43; 43; 44; <b>46</b> ; 53; 56; 62 Median is 42.	1MA ordered data 2A median AO (3)	D L2
1.1.3 (b)	43	2A mode (2)	D L2
1.1.3 (c)	$\text{IQR} = \text{upper quartile} - \text{lower quartile}$ $= Q_3 - Q_1$ $= 46 - 32$ $= 14$	CA from 1.1.3(a) 1RT 46 1RT 32 1CA IQR value (3)	D L3
1.1.4	The interquartile range of 1 <sup>st</sup> tournament is smaller than that of the 2 <sup>nd</sup> tournament (i.e. 14 compared to 50) Range of scores is smaller in the 1 <sup>st</sup> tournament compared to a range of 90 points scored in 2 <sup>nd</sup> tournament. Majority improved their scores.	2J comparison 2J comparison	D L4

**OR**

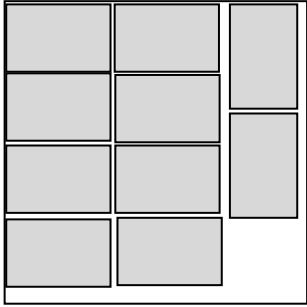
Ques	Solution	Explanation	T&L
	<p>Highest score by a player in 1<sup>st</sup> tournament is 38 points less than a player in 2<sup>nd</sup> tournament. ✓✓J</p> <p>The interquartile range of 2<sup>nd</sup> tournament is higher than that of the 1<sup>st</sup> tournament (i.e. 50 points higher than 14 points).</p> <p>The lowest score of tournament 2 is 17 less than the lowest score in tournament 1.</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">✓✓J</p> <p>Players' performance in Tournament 1 were more consistent because the IQR is smaller and also the range is smaller. ✓✓J</p>	<p>2J comparison</p> <p>2J comparison</p> <p style="text-align: center;"><b>OR</b></p> <p>2J comparison</p> <p>2J comparison</p> <p style="text-align: right;">(4)</p>	
1.2.1	<p style="text-align: center;">✓MA</p> <p>Points : <math>3 \times 1 = 3</math>  <math>8 \times 2 = 16</math>  <math>3 \times 3 = 9</math> ✓M ✓A</p> <p>Point scored = <math>3 + 16 + 9 = 28</math></p> <p>Player F ✓CA</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">✓MA ✓M ✓A</p> <p><math>3 \times 1 + 8 \times 2 + 3 \times 3 = 28</math> points</p> <p>Player F ✓CA</p>	<p>1MA point in relation to position (multiply)</p> <p>1M adding points</p> <p>1A accumulated points</p> <p>1CA player</p> <p>1MA balls multiply by points</p> <p>1M adding</p> <p>1A total points</p> <p>1CA player</p> <p>AO</p> <p style="text-align: right;">(4)</p>	D L3
1.2.2	<p><math>45 \text{ cm} : 3,66 \text{ m}</math> ✓MA</p> <p style="text-align: center;">✓C</p> <p><math>0,45\text{m} : 3,66 \text{ m}</math></p> <p><math>15 : 122</math> ✓CA</p> <p><b>OR</b></p> <p><math>45 \text{ cm} : 3,66 \text{ m}</math> ✓MA</p> <p><math>45 \text{ cm} : 366 \text{ cm}</math> ✓C</p> <p><math>15 : 122</math> ✓CA</p>	<p>1MA writing in correct ratio</p> <p>1C convert cm to m</p> <p>1CA simplification (no units)</p> <p><b>OR</b></p> <p>1MA writing in correct ratio</p> <p>1C convert m to cm</p> <p>1CA simplification (no units)</p> <p style="text-align: right;">(3)</p>	M L2

Ques	Solution	Explanation	T&L
1.2.3	$\begin{aligned} \text{Shaded Area} &= \pi r^2_{(\text{hoop})} - \pi r^2_{(\text{ball})} \\ &= 3,142 \times (22,5\text{cm})^2 - 3,142 \times (12,4\text{cm})^2 \\ &= 1\,590,6375 \text{ cm}^2 - 483,11392 \text{ cm}^2 \\ &= 1\,107,52 \text{ cm}^2 \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} \text{Area of circle (hoop)} &= \pi \times (\text{radius})^2 \\ &= 3,142 \times (22,5)^2 \\ &= 1\,590,6375\text{cm}^2 \end{aligned}$ $\begin{aligned} \text{Area occupied by the ball} &= \pi \times (\text{radius})^2 \\ &= 3,142 \times (12,4)^2 \\ &= 483,11392 \text{ cm}^2 \end{aligned}$ $\begin{aligned} \text{Shaded area} &= 1\,590,6375 - 483,11392 \text{ cm}^2 \\ &= 1\,107,52358 \text{ cm}^2 \end{aligned}$	<p>1A radius hoop 1A radius ball 1M subtracting 1SF correct values 1CA area in cm<sup>2</sup> 1CA area occupied by the ball 1CA simplification</p> <p style="text-align: center;"><b>OR</b></p> <p>1A radius 1SF correct values 1CA area 1A radius of a ball 1CA area occupied by the ball 1M difference 1CA simplification NPR</p> <p style="text-align: right;">(7)</p>	M L3
1.3	<p>Proportional price money:</p> $\text{Y group share } R8,1 \text{ mil} \times \frac{3}{9} = R2,7 \text{ mil}$ $\text{Each member of Y group will receive} = \frac{2,7 \text{ million}}{5}$ $= R0,54 \text{ mil.}$ $0,54 \times 1\,000\,000 = R540\,000$ <p>The player was correct.</p>	<p>1MA getting 9 1M multiply by ratio 1CA price money to share 1M divide by 5 1CA each member's share 1C to 1000's 1O conclusion based on calculation</p>	F L4

Ques	Solution	Explanation	T&L
	<p style="text-align: center;"><b>OR</b></p> <p>Group Y receives <math>\frac{3}{9}</math> of the share ✓✓MA</p> <p>Each member receives <math>\frac{1}{5}</math> ✓A</p> <p>A player from Y = <math>\frac{3}{45} \times 8,1</math> million ✓M</p> <p style="padding-left: 40px;">= 0,54 million ✓CA</p> <p style="padding-left: 40px;">= R540 000 ✓C</p> <p>The statement is correct ✓O</p>	<p>2MA correct ratio</p> <p>1A each member's share</p> <p>1M multiply with ratio</p> <p>1CA simplification</p> <p>1C conversion</p> <p>1O conclusion</p> <p>[max 4 marks if divided by 15 first to get 0,54 mil</p> <p>Max 5 marks if dividing by 3 instead of working with the ratio <math>\frac{3}{9}</math>]</p> <p style="text-align: right;">(7)</p>	
		<b>[39]</b>	



Ques	Solution	Explanation	T&L
	Per period per bread 600 g: Apr 2015 – Jan 2016 : The price increased. ✓J Jan 2016 – Apr 2016: The price remained the same. ✓J 700 g: Apr 2015 – Jan 2016 : The price increased. ✓J Jan 2016 – Apr 2016 The price increased. ✓J	600g: 1J increased 1J constant 700g: 1J increased 1J increased (4)	
2.1.3	He will have to adjust his spending ✓✓J to cater for the increased price. That is money that he was saving to use for other things will be used for wheat products. OR Will experience financial difficulties (i.e. unable to afford bread any longer). ✓✓J OR If he buys the wheat products it will cost him more and he will have less money to spend on other stuff ✓✓J OR Can buy less and less ✓✓J OR Any other valid reason ✓✓J	2J explanation OR 2J explanation OR 2J explanation OR 2J explanation OR 2J explanation (2)	F L4
2.2	Increase in 2017 = $6,6\% \times R6,72$ ✓MA $= R0,44$ ✓A Increased price = $R6,72 + R0,44$ ✓M $= R7,16$ ✓CA Increase in 2018 = $R7,16 \times 6\%$ $= R0,43$ ✓CA Increased price = $R7,17 + R0,43$ $= R7,59$ ✓CA OR $2017: R6,72 \times 1,066 = R 7,16$ ✓MA ✓A ✓M ✓CA $2018: R7,16 \times 1,06 = R7,59$ ✓CA OR $R6,72 \times 1,066 \times 1,06 = R7,59$ ✓MA ✓A ✓M ✓A ✓M ✓CA	1MA multiplying correct values 1A increase amount 1M adding 1CA increased price 1CA increase % 1CA increased price OR 1MA multiplying correct values 1A increase amount 1M adding 1CA increased price 1CA increase % 1CA increased price (6)	F L3

Ques	Solution	Explanation	T&L
2.3.1	$V = 690 \text{ mm} \times 445 \text{ mm} \times 180 \text{ mm} \quad \checkmark \text{SF}$ $= 55\,269\,000 \text{ mm}^3 \quad \checkmark \checkmark \text{CA}$	1SF correct values 2CA volume P if unit is wrong (3)	M L2
2.3.2	<p>Number of crates lengthwise</p> $= \frac{2}{0,69} \quad \checkmark \text{M}$ $= 2,89 \quad \checkmark \text{C}$ <p><math>\therefore</math> 2 crates <math>\checkmark \text{CA}</math></p> <p>Number of crates breadthwise</p> $= \frac{2}{0,445} = 4,4$ <p><math>\therefore</math> 4 crates <math>\checkmark \text{CA}</math></p> <p>Now the remaining space is <math>0,62 \text{ m} \times 2 \text{ m}</math></p> <p><math>\therefore</math> Turn crates: 1 more fit in <math>\left(\frac{0,62}{0,445}\right)</math> and two down</p> <p>Total <math>\checkmark \text{M}</math></p> $= (2 \text{ Lengthwise} \times 4 \text{ breadth wise} + 2) \times 9 \text{ on top of each other}$ <p><math>= 90 \text{ crates} \quad \checkmark \text{CA}</math></p> <p><math>\therefore</math> 80 will fit <math>\checkmark \text{J}</math></p> <p><b>Layout:</b></p> 	$\frac{2000}{690}$ <p>or</p> $\frac{2000}{445}$ <p><math>= 2,89</math></p> <p>1C conversion 1M dividing</p> <p>1CA number length wise</p> <p>1CA number</p> <p>1M finding the total number 1CA number of crates</p> <p>1J conclusion (7)</p>	M L3



Ques	Solution	Explanation	T&L
2.3.3	<p>Number of loaves = <math>80 \times 8 = 640</math> ✓A</p> <p>Cost price per bread = <math>\frac{R5\,350}{640}</math> ✓M = R8,36 ✓CA</p> <p>Number of loaves to break even = <math>\frac{FC}{SP - CP}</math> = <math>\frac{R1\,720,70}{R11,50 - R8,36}</math> ✓SF = 548 ✓CA</p>	<p>1A total number of loaves</p> <p>1M dividing</p> <p>1CA cost price</p> <p>1SF substitution (at least 2 correct values)</p> <p>1CA number of whole loaves</p> <p>(5)</p>	F L3
		[37]	

**QUESTION 3 (38 marks)**

Ques	Solution	Explanation	T&L
3.1.1	$\text{Total population} = \frac{22\,574\,500}{41,1\%} \quad \checkmark\text{RT}$ $= 54\,925\,790,75 \quad \checkmark\text{CA}$ $\approx 54\,925\,800 \text{ people} \quad \checkmark\text{R}$	1RT correct values 1M dividing by %  1CA population  1R number of people (4)	D L3
3.1.2 (a)	$P_{(\text{White female})} = \frac{2\,325\,100}{55\,908\,900} \quad \checkmark\text{MA}$ $= 0,042 \quad \checkmark\text{CA} \quad \text{OR} \quad 4,2\% \quad \text{OR} \quad \frac{1}{24}$	1MA numerator and denominator  1CA simplification <b>AO</b> (2)	P L3
3.1.2 (b)	$\text{Total males} = \text{RSA population} - \text{Female population}$ $= 55\,908\,900 - 28\,529\,100 \quad \checkmark\text{MA}$ $= 27\,379\,800 \quad \checkmark\text{CA}$ $P_{(\text{male})} = \frac{27\,379\,800}{55\,908\,900} = 0,489721672 \approx 0,49 \quad \text{OR} \quad 48,97\% \quad \checkmark\text{CA}$ <p style="text-align: center;"><b>OR</b></p> $P_{(\text{female})} = \frac{28\,529\,100}{55\,908\,900} = 0,51027... \approx 0,51 \text{ or } 51,03\% \quad \checkmark\text{A}$ $P_{(\text{male})} = 1 - 0,51027... \text{ or } 1 - 0,51 \text{ or } 100\% - 51,03\% \quad \checkmark\text{M}$ $= 0,489721672 \text{ or } 0,49 \text{ or } 49,97\% \quad \checkmark\text{CA}$	1MA difference 1CA males total  1CA probability  <p style="text-align: center;"><b>OR</b></p> 1A P(female)  1M subtracting from 1  1CA P(male) (3)	P L3
3.1.3	$2016 = \frac{684\,100}{28\,529\,100} \times 100\% \quad \checkmark\text{MA}$ $= 2,3979024 \approx 2,4\% \quad \checkmark\text{CA}$ <p style="text-align: center;"><b>OR</b></p> $2015 = \frac{673\,900}{28\,078\,700} \times 100\% \quad \text{or} \quad 2014 = \frac{664\,900}{27\,635\,900} \times 100\% \quad \checkmark\text{MA}$ $= 2,4\% \quad \text{or} \quad = 2,4\% \quad \checkmark\text{CA}$ <p style="text-align: center;"><b>OR</b></p>	1MA numerator and denominator 1M multiply by 100% 1CA percentage  1MA numerator and denominator  1CA percentage <p style="text-align: center;"><b>OR</b></p>	D L4

Ques	Solution	Explanation	T&L
	$2014: 100\% - (80,2\% + 8,9\% + 8,5\%) = 2,4\%$ $2015: 100\% - (80,4\% + 8,9\% + 8,3\%) = 2,4\%$ $2016: 100\% - 80,6\% - 8,9\% - 8,1\% = 2,4\%$	1MA subtracting from 100% 1M adding other values 1CA percentage 1MA another year 1CA another year (5)	
3.2.1	Total distance of a space and a post $= 100 \text{ mm} + 40 \text{ mm}$ $= 140 \text{ mm}$ ✓A <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;">                         or <math>0,1 \text{ m} + 0,04 \text{ m}</math>  <math>= 0,14 \text{ m}</math> </div> Distance between posts that must have a space and a post $= 3\,460 \text{ mm} - 100 \text{ mm}$ $= 3\,360 \text{ mm}$ ✓M <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;">                         or <math>3,460 \text{ m} - 0,14 \text{ m}</math>  <math>= 3,360 \text{ m}</math> </div> Number of small posts = $\frac{3360}{140}$ ✓M $= 24$ ✓CA <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;">                         or <math>\frac{3,360}{0,140}</math>  <math>= 24 \text{ m}</math> </div>	1A correct distance  1M subtracting  1M dividing by 140 1CA number of small post [Accept 26 full marks] (4)	M L2
3.2.2	Direct sunlight coming into the rooms through the windows for much longer. <b>OR</b> Sun spend most of the time on the north side of the house. <b>OR</b> It is the side on which the sun shines most of the time during the day.	2J sun and time  <b>OR</b> 2J direction and time  <b>OR</b> 2J sunshine (2)	MP L4
3.2.3	Open outward because they have short width ✓✓O <b>OR</b> Designed to store things, as such they will obstruct inward opening of the doors. ✓✓O <b>OR</b> Storage space will be lost if doors open inwards ✓✓O  <b>OR</b> Other rooms open inward because it is the entrance to the room. ✓O ✓O	2O wideness  <b>OR</b> 2O purpose  <b>OR</b> 2O space  <b>OR</b> 1O way of opening 1O purpose (2)	MP L4



Ques	Solution	Explanation	T&L
3.2.4	<p>Carpeted floor = Area of a Passage + Dining + Living rooms</p> <p>DR area = <math>3,3274 \times 3,6576</math> ✓SF  <math>= 12,17029824 \text{ m}^2</math> ✓CA</p> <p>LR area = <math>4,5720 \times 4,2672</math>  <math>= 19,5096384 \text{ m}^2</math> ✓CA</p> <p>Area of passage = 15% of <math>(12,17 + 19,51) \text{ m}^2</math>  <math>= 15 \% \text{ of } 31,68 \text{ m}^2</math>  <math>= 4,751990496 \text{ m}^2</math> ✓CA</p> <p>Total area = <math>12,17 \text{ m}^2 + 19,51 \text{ m}^2 + 4,75 \text{ m}^2</math> ✓M  <math>= 36,43 \text{ m}^2</math> ✓CA  <math>\approx 37 \text{ m}^2</math> ✓R</p>	<p>1SF finding area</p> <p>1CA area of DR</p> <p>1CA area of LR</p> <p>1M finding 15%</p> <p>1CA area of passage</p> <p>1M adding 3 or 4 values  1CA total area  1R rounding  [Max 6 marks if total area is calculated]</p> <p>(8)</p>	M L3
3.2.5	<p><b>Labour Cost:</b> <math>R1\ 600 + 37 \times R70</math> ✓MA  <math>= R1\ 600 + R2\ 590</math>  <math>= R4\ 190</math> ✓CA</p> <p>Number of boxes = <math>37 \div 2,15</math> ✓M  <math>= 17,209</math>  <math>\approx 18</math></p> <p><b>Cost for boxes flooring:</b>  <math>18 \times R299,90</math>  <math>= R5\ 398,20</math> ✓CA</p> <p>Number of underlay rolls: <math>37 \div 10</math>  <math>= 3,7</math>  <math>\approx 4</math></p> <p><b>Underlayer:</b> <math>4 \times R56,90</math>  <math>= R227,60</math> ✓CA</p> <p><b>Total cost</b> = <math>R4\ 190 + R5\ 398,20 + R227,60</math> ✓MCA  <math>= R9\ 815,80</math> ✓CA</p> <p>The budget is sufficient. ✓O</p>	<p>Area CA from 3.2.4 above  1MA finding labour</p> <p>1CA labour cost</p> <p>1M dividing by 2,15</p> <p>1CA cost of boxes</p> <p>1CA underlayer cost</p> <p>1MCA adding all 3 different cost types  1CA total cost</p> <p>1O conclusion</p> <p>(8)</p>	F L4
		(8)	
		<b>[38]</b>	

**QUESTION 4 [36 marks]**

Ques	Solution	Explanation	T&L
4.1.1	<p style="text-align: center;">✓RT ✓RT ✓RT</p> <p>Tax bracket 3, 4 and 5 [Accept Tax bracket 1]</p> <p style="text-align: center;"><b>OR</b></p> <p>\$37 001 – \$87 000 ✓RT</p> <p style="text-align: center;">✓RT</p> <p>\$87 001 – \$180 000.</p> <p>\$180 001 and over. ✓RT</p> <p>[Accept \$0 – \$1 200]</p>	<p>1RT bracket3 1RT bracket 4 1RT bracket 5</p> <p style="text-align: center;"><b>OR</b></p> <p>1RT tax bracket</p> <p>1RT tax bracket</p> <p>1RT tax bracket</p> <p style="text-align: right;">(3)</p>	<p>F L2</p>
4.1.2	<p>Pay <u>extra</u> tax (2% on taxable income) ✓✓O</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">✓✓O</p> <p>The levy is an <u>extra (additional, more)</u> tax on their income.</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">✓✓O</p> <p><u>Higher income earners</u> are subjected to an <u>extra tax</u> in addition to usual income tax paid.</p>	<p>2O reason</p> <p style="text-align: center;"><b>OR</b></p> <p>2O reason</p> <p style="text-align: center;"><b>OR</b></p> <p>2O reason</p> <p style="text-align: right;">(2)</p>	<p>F L4</p>

Ques	Solution	Explanation	T&L
4.1.3	<p><b>Tax due 2016:</b></p> $= \$54\,547 + 45\% \times (\overset{\checkmark\text{RT}}{\$289\,303,26} - \overset{\checkmark\text{SF}}{\$180\,000})$ $= \$54\,547 + 45\% \times \$109\,303,26$ $= \$54\,547 + \$49\,186,47$ $= \$103\,733,47 \quad \checkmark\text{CA}$ <p>Medical levy = <math>\\$289\,303,26 \times 2\%</math>  <math>= \\$5\,786,07 \quad \checkmark\text{MA}</math></p> <p>Total due = <math>\\$103\,733,47 + \\$5\,786,07</math>  <math>= \\$109\,519,54 \quad \checkmark\text{CA}</math></p> <p><b>Tax due 2017:</b></p> $= \$54\,232 + 45\% \times (\overset{\checkmark\text{RT}}{\$311\,001} - \overset{\checkmark\text{SF}}{\$180\,000})$ $= \$54\,232 + 45\% \times \$131\,001$ $= \$54\,232 + \$58\,950,45$ $= \$113\,182,45 \quad \checkmark\text{CA}$ <p>Medical levy = <math>2\% \times \\$311\,001</math>  <math>= \\$6\,220,02</math></p> <p>Total for 2017: <math>\\$113\,182,45 + \\$6\,220,02 \quad \checkmark\text{CA}</math>  <math>= \\$119\,402,47</math></p> <p>Tax due difference: <math>\\$119\,402,47 - \\$109\,519,54 \quad \checkmark\text{M}</math>  <math>= \\$9\,882,93. \quad \checkmark\text{CA}</math></p> <p>The statement is VALID. <math>\checkmark\text{O}</math></p>	<p>1RT tax bracket 1 SF correct substitution</p> <p>1CA tax due</p> <p>1MA levy value</p> <p>1CA total due</p> <p>1RT tax bracket 1SF correct values</p> <p>1CA tax due</p> <p>1CA total</p> <p>1M finding difference</p> <p>1CA simplification</p> <p>1O conclusion</p> <p>(12)</p>	F L3/4
4.2.1	<p>Mary Rose restaurant; Denmark hotel; Civic Centre</p>	<p>3A venues Accept hotel</p> <p>(3)</p>	MP L2

Ques	Solution	Explanation	T&L
4.2.2	<p style="text-align: right;">✓✓O</p> <p>Because it runs over the river.</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: right;">✓✓O</p> <p>Portions of the river not visible from above where the highway crosses or passes over the river.</p>	<p>2O reason</p> <p style="text-align: center;"><b>OR</b></p> <p>2O reason</p> <p style="text-align: right;">(2)</p>	MP L4
4.2.3	<p style="text-align: center;">✓✓RT    ✓✓RT    ✓✓RT</p> <p>North west <b>OR</b> NW <b>OR</b> West of North</p>	<p>2RT direction</p> <p style="text-align: right;">(2)</p>	MP L2
4.2.4	<p>Turn right walk along Walker Str ✓A</p> <p>Turn right into Strickland Str ✓A</p> <p>Pass South Coast Highway</p> <p>And turn left into Mount Shadforth Rd ✓A</p> <p>Restaurant will be on his right</p> <p style="text-align: center;"><b>OR</b></p> <p>Turn SW into Walker Street and proceed. ✓A</p> <p>At the corner turn NW and continue. ✓A</p> <p>Cross South Coast Highway ✓A</p> <p>Turn W into Mount Shadforth Rd. ✓A</p> <p>The restaurant is on the northern side of the road.</p>	<p>1A route and turn</p> <p>1A route and turn</p> <p>1A turn and road</p> <p style="text-align: center;"><b>OR</b></p> <p>1A route and turn</p> <p>1A route and turn</p> <p>1A turn and road</p> <p style="text-align: right;">(3)</p>	MP L3
4.2.5	<p>Measured distance between = 23 mm ✓✓MA</p> <p>Scale 23 mm is 100 m ✓C</p> <p>How long it will take him = Time = <math>\frac{\text{Distance}}{\text{Speed}}</math> ✓F</p> <p style="text-align: center;"><math>= \frac{100\text{m}}{1,1\text{m/s}}</math> ✓A</p> <p style="text-align: center;"><math>= 90,91 \text{ seconds}</math> ✓CA</p> <p style="text-align: center;">In minutes <math>90,909 \div 60 = 1,52 \text{ minutes.}</math> ✓C ✓CA</p> <p>No. He can walk in less than 2 minutes at that speed. ✓O</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">2 min = 120 sec ✓C ✓A</p> <p>Distance = <math>1,1 \text{ m/s} \times 120 \text{ s} = 132 \text{ m}</math> ✓A ✓F ✓CA</p> <p>Measured distance = 23 mm ✓✓MA</p> <p>Scale 23 mm = 100 m ✓C</p> <p>He will have passed the Indigo Cuisine ✓O</p> <p><b>[Accept measurements 23 mm to 25 mm]</b></p>	<p>2MA measuring</p> <p>1C using scale</p> <p>1F formula</p> <p>1A dividing by speed</p> <p>1CA calculating time</p> <p>1C divide by 60</p> <p>1CA minutes</p> <p>1O conclusion</p> <p style="text-align: center;"><b>OR</b></p> <p>1C multiply by 60</p> <p>1A time in seconds</p> <p>1A multiply with speed</p> <p>1F formula</p> <p>1CA distance</p> <p>2MA measurement</p> <p>1C using scale</p> <p>1O conclusion</p> <p style="text-align: right;">(9)</p>	MP L4
		<b>[36]</b>	

**TOTAL: 150**