

# THE SIPRO PRE - PLE SET II 2024

## MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

EMIS No.						Personal No.		
Index No.								

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

EMIS No. \_\_\_\_\_

District ID: \_\_\_\_\_

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:  
"FOR EXAMINER'S USE ONLY"

### For Examiner's Use Only:

Qn No.	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Page 10		
Page 11		
Total		

Please turn over



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### SECTION A: 40 MARKS

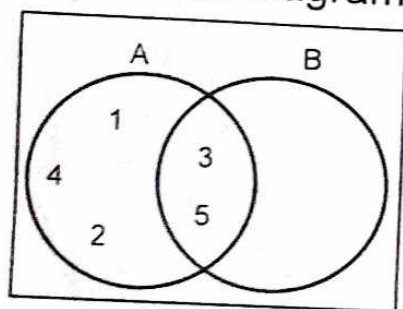
Attempt **all** questions in this section.

Questions 1 to 20 carry **two** marks each.

1. Work out:  $97 - 15$

2. Simplify:  $5ab + 2ab - 3ab$

3. In the venn diagram below, find  $n(B - A)$



4. Write **CDX** in Hindu-Arabic numerals.

5. Cooking oil is sold in **25ml** sackets. Nyapendi bought **0.5 litres** of cooking oil. How many sackets did she buy?



6. Matayo took 19 days weeding his cassava garden. He completed weeding the garden on Friday. What day of the week did he start weeding his garden?

7. Express 300 as a product of its prime factors.

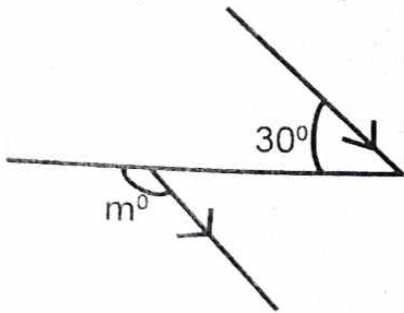
8. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $67.5^\circ$ .

9. Aminah is 7 years old and Liz is 12 years old. How old will Aminah be when Liz is 18 years?

10. Convert  $320_{\text{five}}$  to base ten.

11. Express 40 centigrams as a percentage of 2 grams.

12. In the figure below, find the value of  $m$  in degrees.



13. Using digits 3, 8 and 4, form two, 3-digit numbers divisible by 6.

The smallest number divisible by 6	_____
The biggest number divisible by 6	_____

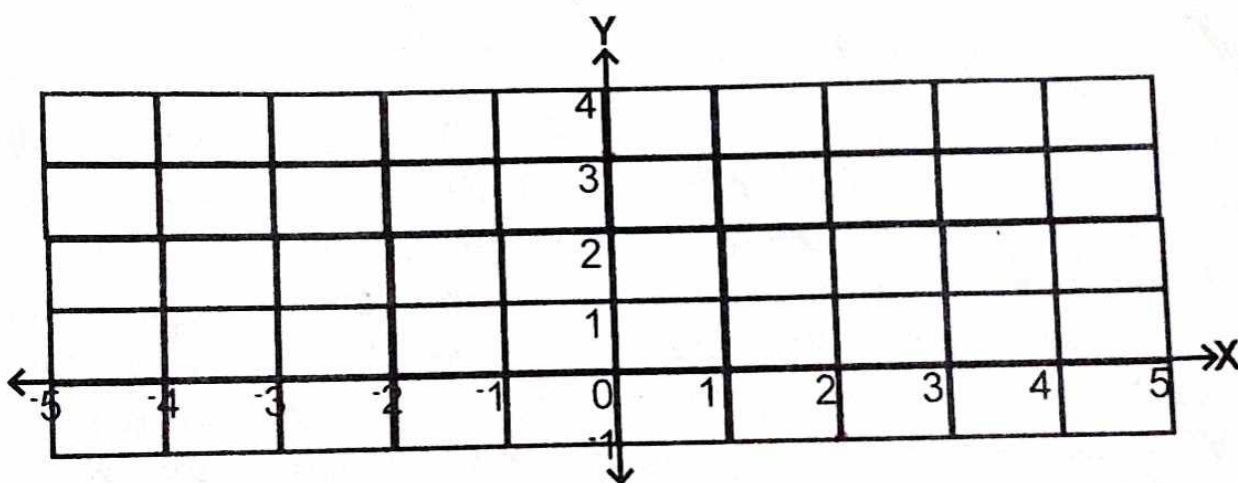
14. Solve:  $2h - (3 - h) = 9$ .

15. Mawa sold a shirt at sh.18,000 and made a profit of sh. 2,000. Calculate his percentage profit.

16. Aidah's watch is faulty. When the correct time is 6:40 a.m., Aidah's watch reads 7:10 a.m. What is the correct time if the time by Aidah's watch is 9:00 a.m?

$$\begin{array}{r}
 6:40 \\
 7:10 \\
 \hline
 30 \\
 8:00 \\
 9:00 \\
 \hline
 30 \\
 8:30
 \end{array}$$

17. Plot the points **B(0, +3)** and **D(+2, -1)** on the coordinate graph below;



18. The temperature of water ice was  $-19^{\circ}\text{C}$ . When the water was heated, the temperature rose to  $-5^{\circ}\text{C}$ . What was the rise in temperature?





19. Work out:  $\frac{3}{4} + 4$ .

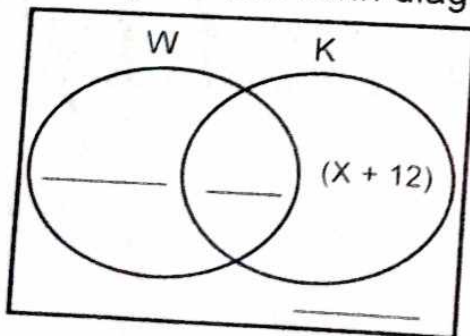
20. The average mass of 6 boys in a group is 40kg. Two boys who weigh 40kg and 20kg leave the group. Find the total mass of the remaining 4 boys.

### SECTION B: 60 MARKS

Attempt **all** questions in this section.

Marks for **each part** of the question are indicated in the brackets.

21. In a class, 30 pupils enjoy teacher Wasswa's lesson (W), 29 enjoy teacher Kato's lesson (K), 13 of the pupils who enjoy teacher Wasswa's lessons also enjoy teacher Kato's lessons, and 'x' pupils enjoy other teachers' lessons.
- (a) Complete the venn diagram below. (03 marks)



- (b) Find the value of x. (02 marks)



(c) How many pupils do not enjoy teacher Kato's lessons? (01 mark)

2. The table below shows how Mr. Oguti bought his items from the shop.

(a) Complete the table below.

(05 marks)

Items	Quantity	Unit price	Total cost
Peas	$2\frac{1}{2}$ kg	Sh. 4,000 per kg	Sh. _____
Cooking oil	_____ litres	Sh. 8,000 per litre	Sh. 6,000
Sugar	$3\frac{1}{4}$ kg	Sh. _____ per kg	Sh. 13,000
Mushrooms	1,500g	Sh. 2,000 per kg	Sh. _____
Total bill			Sh. _____

(b) If he had sh. 40,000, how much did he remain with? (01 mark)

23. At the bus park, buses travelling to Arua and Bushenyi leave after every 40 minutes and 50 minutes respectively.

(a) After how long do the two buses leave together? (03 marks)

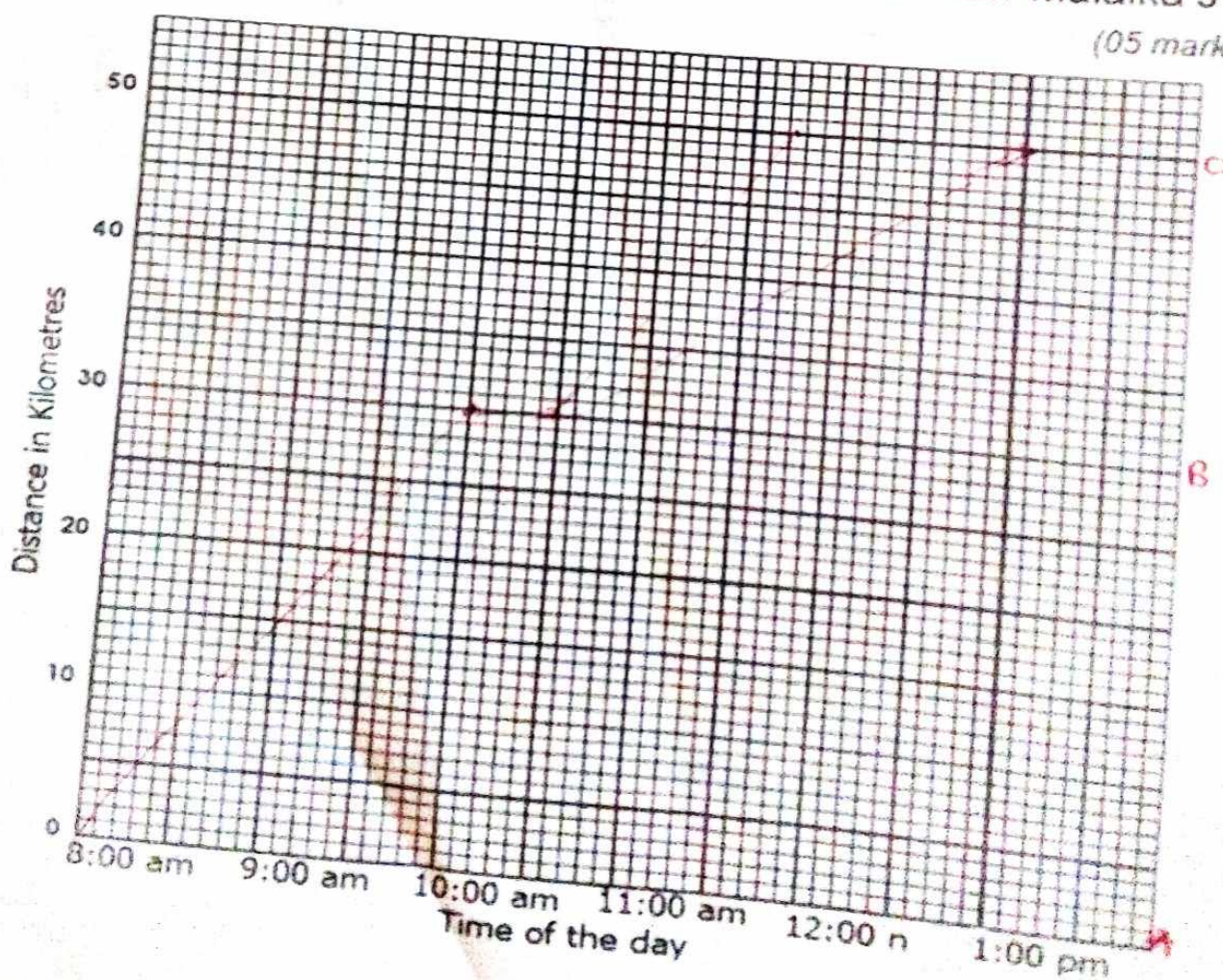




(b) The first buses leave together at 6:00 a.m. At what time do the buses leave together again? (03 marks)

24. Malaika started riding his bicycle from town A to town C through town B at 8:00 a.m. He rode from town A to town B at a speed of 15 km/h for 2 hours and then rested for  $\frac{1}{2}$  an hour. From town B, he rode to town C a distance of 20 km at a constant speed of 8 km/h.

On the graph given below, draw a travel graph to show Malaika's journey. (05 marks)





A cylindrical tin of diameter 28cm and height 20cm is full of paraffin. How many litres of paraffin will remain in the tin after using  $3,320 \text{ cm}^3$  of the paraffin? (Use  $\pi$  as  $\frac{27}{7}$ ). (04 marks)

6. (a) Solve for m:  $\frac{3m}{4} + 7 = 40$ . (02 marks)

(b) Solve the inequality below and write the solution set. (03 marks)  
 $6(x + 3) > 12$ .

27. (a) With the help of a ruler, sharp pencil and a pair of compasses only, construct a square PQRS whose diagonals measure 7cm. (04 marks)

(b) Measure the length QR of the square: \_\_\_\_\_ (01 mark)



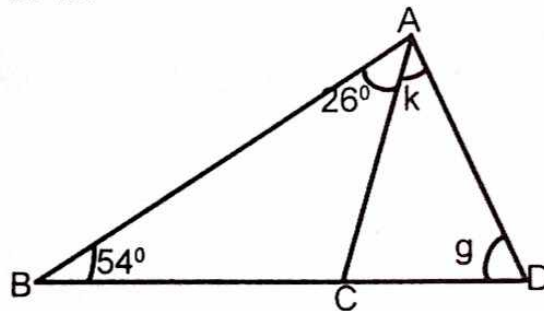
28. The average of 60,  $(2p - 18)$ , 81 and  $p$  is 75.  
(a) Find the value of  $p$ .

(03 marks)

- (b) Find the range of the scores.

(02 marks)

29. In the figure below, angle  $ABC = 54^\circ$ ,  $BAC = 26^\circ$  and angle  $BCA$  is twice angle  $BAD$ .



- Find the size of;  
(a) angle marked  $k$ .

(03 marks)

- (b) angle marked  $g$ .

(02 marks)

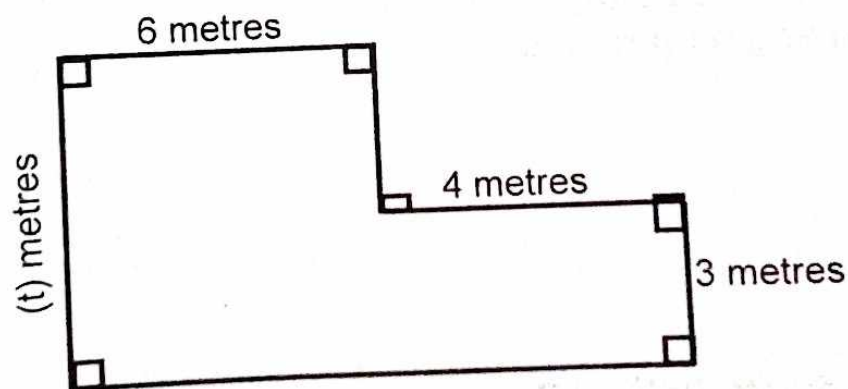




0. When a shoe seller sells a pair of shoes for sh.81,000, he makes a loss of 10%.
- ma (a) Calculate the price at which he buys the pair of shoes. (02 marks)

- nar (b) At what price should he sell the pair of shoes in order to gain 5%? (02 marks)

- A
31. The figure below shows Matilda's flower garden. The area of the flower garden is  $60\text{m}^2$ . Study the figure carefully and use it to answer questions (a) and (b) that follow.



- ks (a) Find the value of  $t$ .

(03 marks)

(b) Find the perimeter of the flower garden.

$$\begin{array}{r} 10:30 \\ 2:30 \\ \hline 13 \end{array} \quad (02 \text{ marks})$$

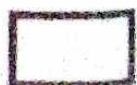
32. The timetable below is of a flight by a plane. Study and use it to answer the questions that follow.

AIRPORT	ARRIVAL	DEPARTURE
V		3 : 15 p.m
W	3 : 30 p.m	4 : 40 p.m
X	5 : 35 p.m	6 : 10 p.m
Y	6 : 25 p.m	

(a) Express the time the plane left airport V to a 24-hour clock system. (02 marks)

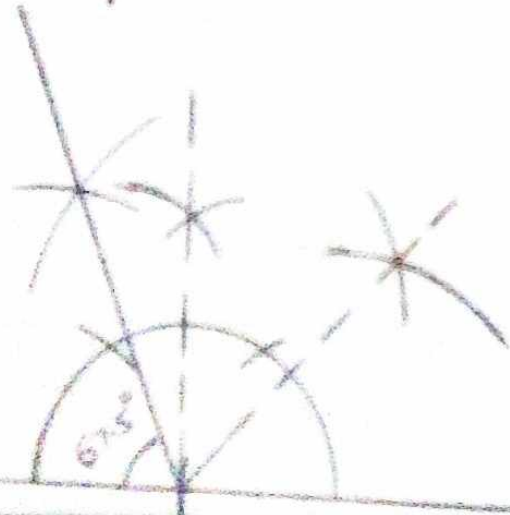
(b) Chandia arrived at airport X, 30 minutes before the plane left airport W. For how long was Chandia at airport X, before leaving for airport Y? (02 marks)

(c) If the speed of the plane between airport X and airport Y, was 640 km/h, what distance did the plane cover between airport X and airport Y. (02 marks)



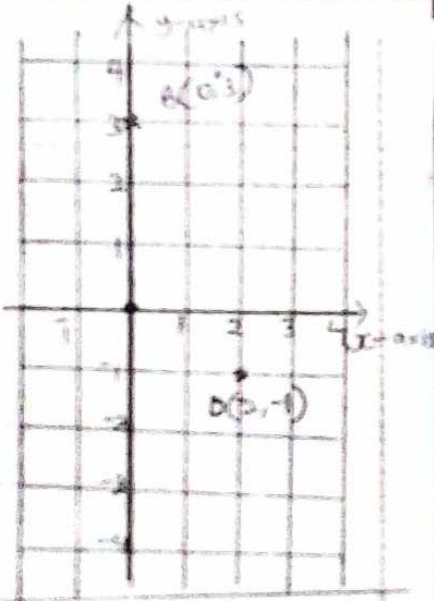


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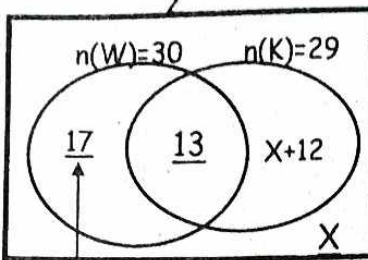
QN	LEVEL	SOLUTION	MRK	REASON	COMMENT																												
1	P.1	$\begin{array}{r} 97 \\ - 15 \\ \hline 82 \end{array}$	B <sub>2</sub>	For the difference.	Operate and regroup correctly involving word statements.																												
2	P.6	$\begin{array}{l} 5ab + 2ab - 3ab \\ 7ab - 3ab \\ 4ab \end{array}$	B <sub>2</sub>	For 4ab	Revisit collecting like terms.																												
3	P.5	$B - A = 50^\circ$ $n(B-A) = 0$	B <sub>1</sub> B <sub>1</sub>	For B-A For n(B-A)	Help the candidates to identify the regions on the venn diagram and differentiate.																												
4	P.6	$\begin{array}{l} CDX = CD \quad X \\ = 400 + 10 \\ = 410 \end{array}$	B <sub>2</sub>	For 410	Revisit conversion of hindu Arabic to Roman numerals.																												
5	P.5	<table><tr><td>500ml packets</td><td>LL = 1000ML</td></tr><tr><td>25ml</td><td>0.5L = 5X1000ML</td></tr><tr><td>20X 500ml</td><td>10</td></tr><tr><td>125ml</td><td>500ML</td></tr><tr><td>20 packets of 25ml</td><td></td></tr></table>	500ml packets	LL = 1000ML	25ml	0.5L = 5X1000ML	20X 500ml	10	125ml	500ML	20 packets of 25ml		M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	Make a review on related areas but with different units.																		
500ml packets	LL = 1000ML																																
25ml	0.5L = 5X1000ML																																
20X 500ml	10																																
125ml	500ML																																
20 packets of 25ml																																	
6	P.7	<p>Days past 19 - 1 = 18 days Day - days = (finite 7) 5 - 18 = (finite 7) From 4 718 5 - 4 = (finite 7) 1 (finite 7) The wedding started on Monday.</p>	M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	<p>Expose candidates to application of integers in different versions.</p> <p>Accept</p> <table><tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr><tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr></table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
S	M	T	W	T	F	S																											
1	2	3	4	5	6	7																											
8	9	10	11	12	13	14																											
15	16	17	18	19	20	21																											
7	P.6	<table><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr><tr><td>2100</td><td></td></tr></table> <p>300 = 2x2x3x5x5</p>	2100		2100		2100		2100		2100		2100		2100		2100		2100		2100		M <sub>1</sub> A <sub>1</sub>	For the method. For correct answer	Make a review on prime factorization and assist the weak candidates.								
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8	P.7		B <sub>1</sub> B <sub>1</sub>	For 135° For 67.5°	Emphasize correct labelling of angles.																												

9	P.5	<p>Aminah 12 7 13 8 14 9 15 10 16 11 17 12 18 13 18</p> <p>Aminah will be 13 years.</p>	M <sub>1</sub>	For the method	Accept any other method leading to correct answer Accept Difference (18 - 12) years 6 years Aminah 7+6 13 years
10	P.5	<p>3 2 0 five     bnes     fives five fives (3x5x5)+(2x5)+(0x1) 75 + 10 + 10 85 ten</p>	M <sub>1</sub>	For the correct method	Help the candidates to operate bases and regroup where applicable.
11	P.6	<p>lg = 100cg 2g = 2x100cg = 200cg 40 x 100% 200 40 20x 100% 200 = 20%</p>	M <sub>1</sub>	For correct method.	Involve variety of units used in related questions.
12	P.6	<p><math>m^0 + 30^0 = 180^0</math> <math>m^0 + 300 - 300 = 180^0 - 30^0</math> <math>m^0 = 150^0</math> <math>\underline{m^0} = 150^0</math> <math>1^0 \quad 1^0</math> <math>m = 150</math></p>	M <sub>1</sub>	For the equation.	- Make a review on angles involving parallel lines. - Encourage completion of diagrams.
13	P.7	<p>3, 8, 4 - 483, 438 → 843 (834) → 384, (348) Smallest number is 348 Biggest number is 834</p>	B <sub>1</sub>	For 348	Revisit divisibility tests and help candidates on how they can be applied.
14	P.7	<p><math>2h - (3 - h) = 9</math> <math>2h - 3 + h = 9</math> <math>2h + h - 3 = 9</math> <math>3h - 3 + 3 = 9 + 3</math> <math>3h = 12</math> <math>\underline{3h} = 12</math> <math>3 \quad 31</math> <math>h = 4</math></p>	M <sub>1</sub>	For the correct method used.	Expose candidates to variety of equations and practice.
15	P.5	<p>% profits = <math>\frac{p}{BP} \times 100\%</math> BP = sh. 18,000 sh. 2,000 sh. 16,000</p>	M <sub>1</sub>	For the correct method	Make a review on finding B.P, S.P, loss profit etc.



		$\frac{2000 \times 100\%}{16000}$ $= \frac{200}{16}$ $12\frac{1}{2}$ 1% or 12.5	A <sub>1</sub>	For the correct answer.	
16	P.7	Hours      min 7:      10am -6      40am ----- 30min 9:00am -30 ----- 8:30am The correct time is 8:30am	B <sub>1</sub>	For 30mins	Accept any other method leading to correct answer.
			B <sub>1</sub>	For 8:30am	
17	P.7		B <sub>1</sub>	For the correct co-ordinate.	Make a review on plotting and identifying the points on the graph.
			B <sub>1</sub>		
18	P.6	$R = HT - LT$ $R = -5^{\circ}\text{C} - (-19^{\circ}\text{C})$ $R = -5^{\circ}\text{C} + 19^{\circ}\text{C}$ $R = 14^{\circ}\text{C}$ The rise in temperature was $14^{\circ}\text{C}$	M <sub>1</sub>	For the method.	Revisit simplification of integers.
			A <sub>1</sub>	For the correct answer	
19	P.7	$\frac{3}{4} \times 4$ $\frac{3}{4} \times \frac{4}{1}$ $\frac{3 \times 4}{4 \times 1}$ $\frac{12}{4}$ $3$ $3 \times 1$ $4 \times 4$ $12$ $16$	M <sub>1</sub>	For the method.	Make a review on operation of fractions.
			A <sub>1</sub>	For the correct answer	
20	P.7	$6 \times 40\text{kg} = 240\text{kg}$ $40\text{kg} + 20\text{kg} = 60\text{kg}$ $240\text{kg}$ $- 60\text{kg}$ ----- $180\text{kg}$	M <sub>1</sub>	For the correct method	Expose learners to a variety of such related questions.
			A <sub>1</sub>	For the answer	

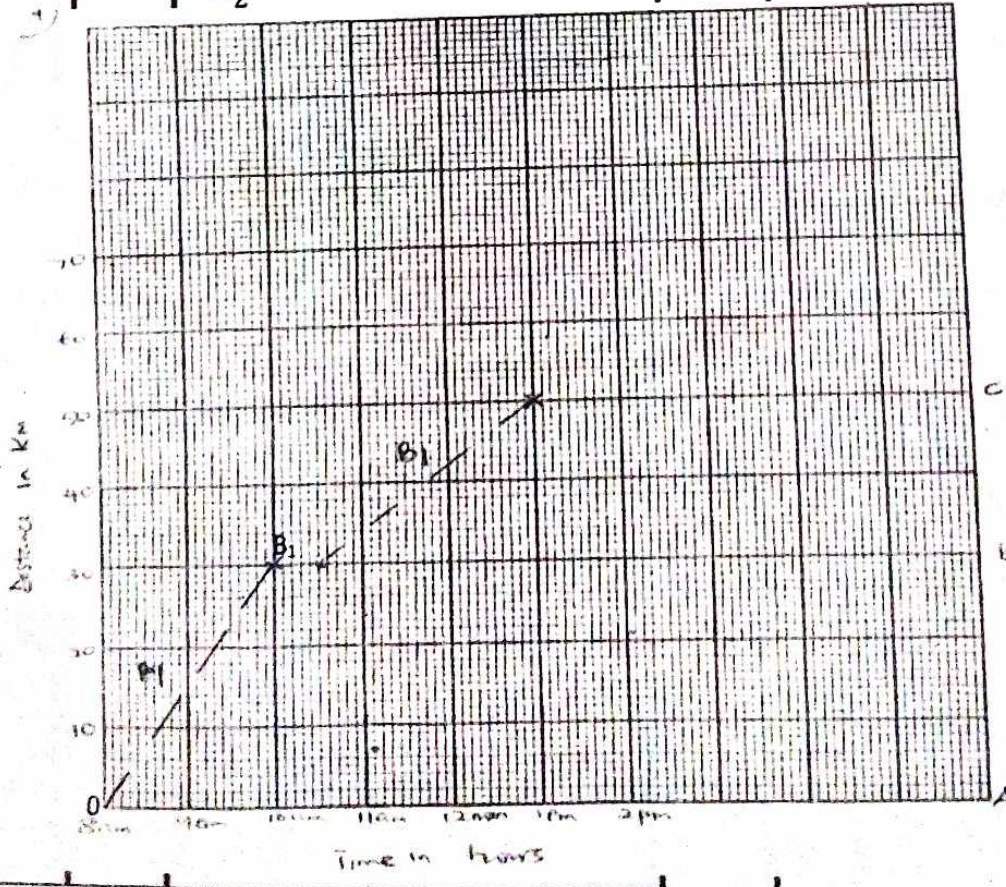
# SECTION B

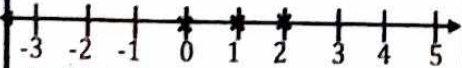
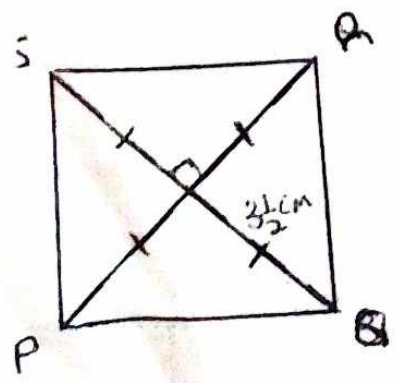
SECTION B																							
21a)	P.7	 $\begin{array}{r} 2310 \\ - 13 \\ \hline 17 \end{array}$	B <sub>1</sub>	For correct entry 13.	Encourage candidates to always read the question at least 3 times for them to understand correctly.																		
			B <sub>1</sub>	For entry 17																			
			B <sub>1</sub>	For entry x.																			
b)		$\begin{aligned} x + 12 + 13 &= 29 \\ x + 25 - 25 &= 29 - 25 \\ x &= 4 \end{aligned}$	M <sub>1</sub>	For the correct equation formed.	Help candidates on how to fill the table and encourage them to show the working.																		
			A <sub>1</sub>	For correct answer.																			
c)		$\begin{aligned} 17 + x \\ 17 + 4 &= 21 \text{ pupils} \end{aligned}$	B <sub>1</sub>	For correct answer.																			
22 a)	P.6	<p><b>Peas</b>  <math>2 \times \text{sh. } 4000</math>  <math>2 \times 2000</math>  <math>5 \times \text{sh. } 4000</math>  <math>2 \times 1000</math>  <math>\text{Sh. } 10,000</math></p> <p><b>Sugar</b>  <math>\text{Sh. } 13,000 \div 3 \frac{1}{4}</math>  <math>\text{Sh. } 13,000 \div 13</math>  <math>1 \frac{4}{13}</math>  <math>\text{Sh. } 13,000 \times 4</math>  <math>1 \frac{13}{1}</math>  <math>\text{Sh. } 4,000</math></p> <p><b>Mushrooms</b>  <math>1,500 \times \text{sh. } 2,000</math>  <math>1000 = \text{Sh. } 3,000</math></p> <p><b>Total bill</b>  <math>\text{sh. } 10,000</math>  <math>\text{sh. } 6,000</math>  <math>\text{sh. } 13,000</math>  <math>+ \text{sh. } 3,000</math>  <math>\text{sh. } 32,000</math></p>	B <sub>1</sub>	For sh.10,000	Help candidates on how to fill the table and encourage them to show the working.																		
			B <sub>1</sub>	For 3 litres 4																			
			B <sub>1</sub>	For sh. 4,000																			
			B <sub>1</sub>	For sh. 3,000	Make a review on prime factorization of numbers and expose candidates to more																		
			B <sub>1</sub>	For the total bill.																			
b)		$\begin{aligned} \text{sh. } 34,000 \\ - \text{sh. } 32,000 \\ \hline \text{sh. } 8,000 \end{aligned}$	B <sub>1</sub>	For the correct answer.																			
23a)	P.6	<table border="1"> <tr><td>2</td><td>40</td><td>50</td></tr> <tr><td>2</td><td>20</td><td>25</td></tr> <tr><td>2</td><td>10</td><td>25</td></tr> <tr><td>5</td><td>5</td><td>25</td></tr> <tr><td>5</td><td>1</td><td>5</td></tr> <tr><td></td><td>1</td><td>1</td></tr> </table>	2	40	50	2	20	25	2	10	25	5	5	25	5	1	5		1	1	M <sub>1</sub>	For the method.	Make a review on prime factorization of numbers and expose candidates to more
2	40	50																					
2	20	25																					
2	10	25																					
5	5	25																					
5	1	5																					
	1	1																					

THE SIPRO PRIMARY SEVEN MATHEMATICS PRE-FILE SET II

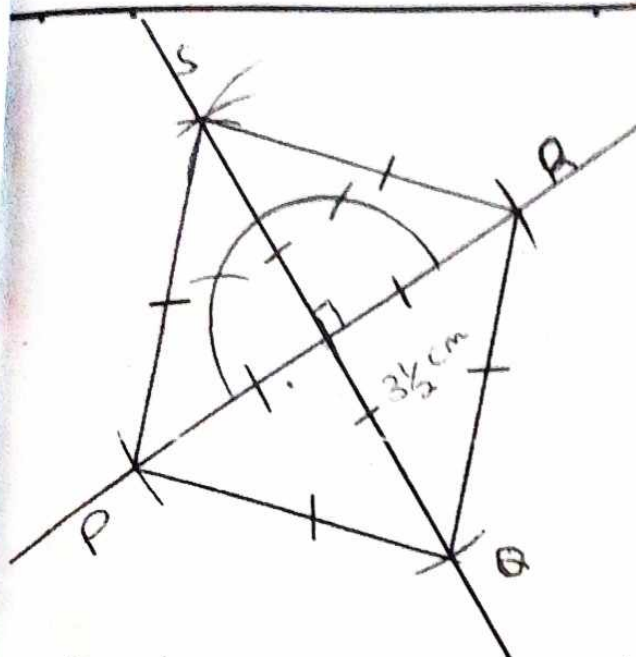


		$(2 \times 2 \times 2) \times 5 \times 5$ $8 \times 25$ 200 minutes $(\frac{200}{60})^{10}$ hours 603 <b>3</b> $\frac{1}{3}$ hours	B <sub>1</sub>	For 200 minutes	other application questions.
			A <sub>1</sub>	For <b>3</b> $\frac{1}{3}$ hours	
b)		$\frac{1}{31} \times 60^{20}$ 31 20 minutes 6 00am + 3 20 <u>9 20am</u> The bus will leave together at 9:20am	M <sub>1</sub>	For addition	
			A <sub>1</sub>	For the answer.	
24a)	P.7	A to B $D = S \times T$ = <u>15km</u> $\times$ 2 hours 1h = 30km Resting time $\frac{1}{2}$ hour  B to C $D = 20\text{km}$ $T = \frac{D}{S}$ = <u>5</u> $\frac{20}{2}$ km 82km/h = <b>2</b> $\frac{1}{2}$ hour	B <sub>1</sub>	For 30km	Encourage candidates to find the distance, time and speed if they are not given.
			B <sub>1</sub>	For <b>2</b> $\frac{1}{2}$ hour	

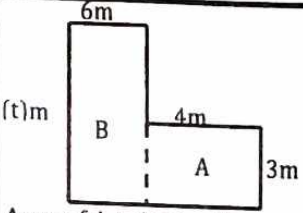


25	P.5	$\text{Volume} = \pi r^2 h$ $= \frac{22}{7} \times 14\text{cm} \times 14\text{cm} \times 20\text{cm}$ $\frac{22}{7} \times 14\text{cm} \times (14\text{cm} \times 20\text{cm})$ $44\text{cm} \times 280\text{cm}^2$ $\frac{12320\text{cm}^3}{1000}$ $12320\text{cm}^3$ $- 3320\text{cm}^3$ $\frac{9000\text{cm}^3}{1000\text{cm}^3}$ $\text{No of litres} = \frac{\text{volume}}{1000\text{cm}^3}$ $\frac{(9000\text{cm}^3)}{1000\text{cm}^3} \text{ Litres}$ $9 \text{ litres}$	M <sub>1</sub>  B <sub>1</sub>  B <sub>1</sub>  A <sub>1</sub>	For the method  For 12320cm <sup>3</sup>  For 9000cm <sup>3</sup>  For 9 litres	Revisit volume of all solid figures and work out the capacities.
26a)	P.7	$3m + 7 = 40$ $3m + 7 - 7 = 40 - 7$ $3m = 33$ $\frac{3m}{3} = \frac{33}{3}$ $m = 11$	M <sub>1</sub>  A <sub>1</sub>	For collecting like terms.  For m = 44	Make a review on equations and involve solving inequalities.  Accept other correct methods.
b)		$6(x+3) > 12$ $\frac{6(x+3)}{6} > \frac{12}{6}$ $x+3 > 2$ $x-3-3 > 2-3$ $x > -1$  $X = \{0, 1, 2, \dots\}$	M <sub>1</sub>  B <sub>1</sub>  B <sub>1</sub>	For collecting like terms.  For x > -1  For the solution set.	Accept other correct approaches.
27a)	P.7		S <sub>1</sub>  C <sub>1</sub>  C <sub>1</sub>  J <sub>1</sub>	For the sketch.  For 90°  For the arcs.  For joining.	Make a review on construction of all quadrilateral polygons.





	b)	$QR = \pm 4.9\text{cm}$	B <sub>1</sub>	For the length.	
28a)	P.7	<p>Average = <math>\frac{\text{sum of data}}{\text{Number of data}}</math></p> <p><math>75 = \frac{60 + 2p - 18 + 81 + p}{4}</math></p> <p><math>75 = \frac{60 + 81 - 18 + 2p + p}{4}</math></p> <p><math>4 \times 75 = \frac{(123 + 3p) \times 4}{4}</math></p> <p><math>300 = 123 + 3p</math></p> <p><math>300 - 123 = 123 - 123 + 3p</math></p> <p><math>\frac{177}{3} = \frac{3p}{3}</math></p> <p><math>59 = p</math></p> <p><math>P = 59</math></p>	<p>B<sub>1</sub></p> <p>M<sub>1</sub></p> <p>A<sub>1</sub></p>	<p>For the substitution</p> <p>For the correct method</p> <p>For the correct answer</p>	<p>Follow through and expose candidates to application of mean and other statistical terms.</p> <p>Accept</p> <p><math>P + 2p - 18 + 60 + 81 = 15 \times 4</math></p> <p><math>3p - 18 + 141 = 75 \times 4</math></p> <p><math>3p + 128 = 300</math></p> <p><math>3p + 123 - 123 = 300 + 123</math></p> <p><math>\frac{3p}{3} = \frac{177}{3}</math></p> <p><math>P = 59</math></p>
	b)	<p><math>(2p - 18)</math></p> <p><math>(2 \times 59) - 18 = 100</math></p> <p><math>R = H - L</math></p> <p><math>100 - 59</math></p> <p><math>R = 41</math></p>	<p>B<sub>1</sub></p> <p>B<sub>1</sub></p>	<p>For 142</p> <p>For 41</p>	
29a)	P.6	<p><math>2(k + 26^\circ) + 54^\circ + 26^\circ = 180^\circ</math></p> <p><math>2k + 52^\circ + 80^\circ = 180^\circ</math></p> <p><math>2k + 132^\circ = 180^\circ</math></p> <p><math>2k + 132^\circ - 132^\circ = 180^\circ - 132^\circ</math></p> <p><math>\frac{2k}{2} = \frac{48^\circ}{2}</math></p> <p><math>k = 24^\circ</math></p>	<p>B<sub>1</sub></p> <p>B<sub>1</sub></p> <p>A<sub>1</sub></p>	<p>For <math>2(k + 26^\circ)</math></p> <p>For the equation.</p> <p>For <math>k = 24^\circ</math></p>	<p>Encourage candidates to indicate and make use of the diagram by writing in it.</p>
	b)	<p><math>g + k + 26^\circ + 54^\circ = 180^\circ</math></p> <p><math>g + 24^\circ + 80^\circ = 180^\circ</math></p> <p><math>g + 104^\circ = 180^\circ</math></p> <p><math>g + 104^\circ - 104^\circ = 180^\circ - 104^\circ</math></p> <p><math>g = 76^\circ</math></p>	<p>M<sub>1</sub></p> <p>A<sub>1</sub></p>	<p>For the equation.</p> <p>For the correct answer.</p>	

30a)	P.7	$100\% - 10\% = 90\%$ sh. 81,000 ÷ 90% sh. 81,000 ÷ $\frac{90}{100}$ $\frac{9000}{90}$ Sh. 81000 x $\frac{100}{90}$ Sh 90,000	M <sub>1</sub>	For the correct method	Accept other correct methods.
		$100\% + 5\% = 105\%$ $\frac{105}{100}$ x sh. 90,000 Sh. 94,500	M <sub>1</sub>	For the correct method	
31a)	P.7	 <p>Area of A + Area of B  <math>(L \times W) + (L \times W) = \text{area}</math>  <math>(4m \times 3m) + (6m \times t) = 60m^2</math>  <math>12m^2 + 6m^2t = 60m^2</math>  <math>12m^2 - 12m^2 + 6m^2t = (60m^2 - 12m^2)</math>  <math>6t = 48m^2</math>  <math>\frac{6m^2t}{6m^2} = \frac{48m^2}{6m^2}</math>  <math>t = 8</math> </p>	B <sub>1</sub>	For the correct method used.	Follow through the candidates work and practical related questions.
		Perimeter = $(10m + 10m) + (8m + 8m)$ = $20m + 16m$ = $36m$	M <sub>1</sub>	For the correct method.	
32 a)	P.7	3: 15pm + 12: 00 15 15hour	A <sub>1</sub>	For correct answer.	Make a review on time table in both am and p.m.
	b)	4 : 40 p.m    time taken - 0 : 30        6: 10pm 4 : 10p.m    - 4:10p.m 2 hours	M <sub>1</sub>	For 4:10p.m	
			A <sub>1</sub>	For 2hours	
	c)	6 : 25p.m - 6 : 10 p.m 0 : 15 minutes D = S x T D = $640km \times \frac{1}{4}h$ D = $\frac{640}{4}km$ D = 160km	M <sub>1</sub>	For the correct method.	
			A <sub>1</sub>	For the answer	

-19c m = 5c  
5419  
= 19c