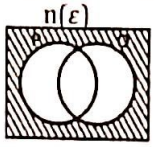
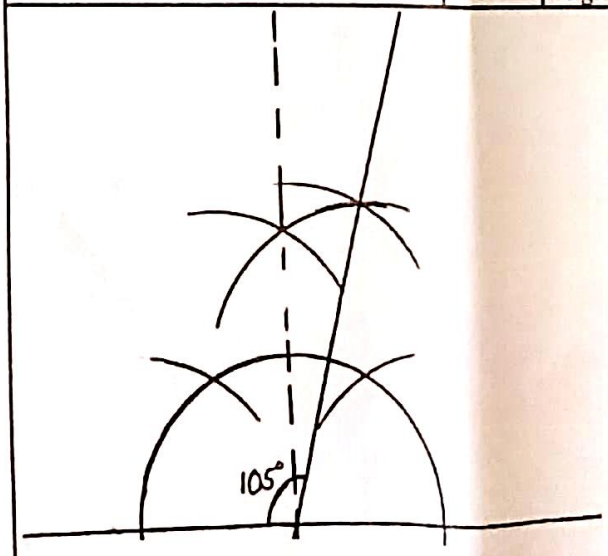
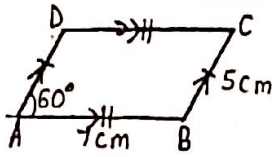
ROAD TO PLE 2026

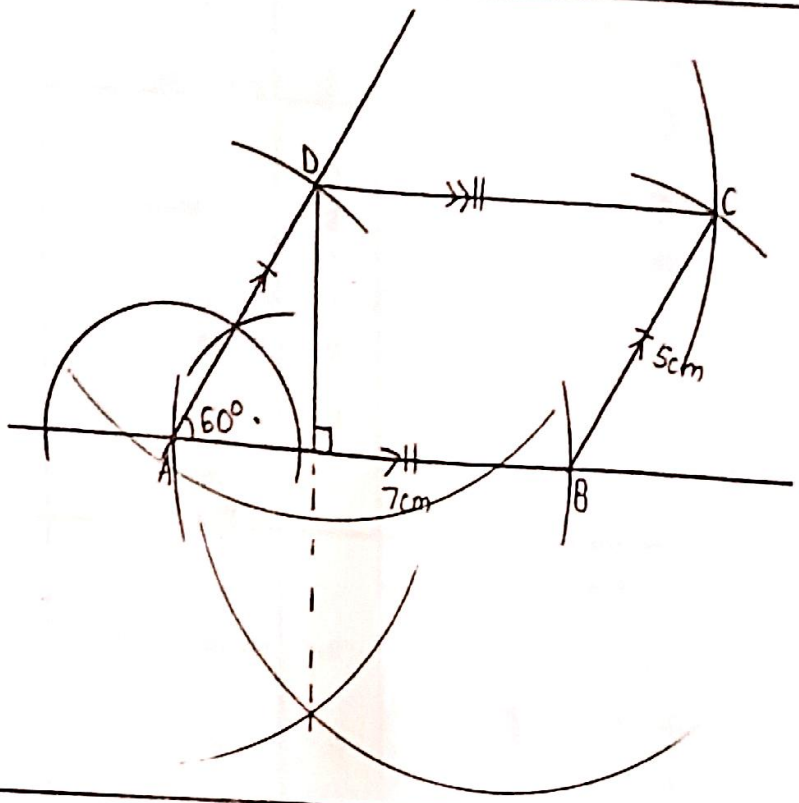
THE SIPRO PRIMARY SEVEN MATHEMATICS PRE-PLE SET I MARKING GUIDE 2026

NO	LEVEL	SOLUTION	AWARD	COMMENT	ADVICE TO THE TEACHER
1.	P.5	$28 \div \frac{1}{2}$ $28 \times \frac{2}{1}$ 56	M_1 A_1	For the method. For the correct answer.	Take learners through division of whole numbers by fractions.
2.	P.4	38,000 + 50 38,050	B_2	For 38,050.	Help learners in writing in words and figures.
3.	P.5	17 : 30 pm + 3 : 30 11 : 00 11:00pm.	M_1 A_1	For the method. For the correct answer.	Make a review on finding duration, starting time and ending time.
4.	P.7	$p + 50^0 + 50^0 = 180^0$ $p + 50^0 + 50^0 = 180^0$ $p + 100^0 - 100^0 = 180^0 - 100^0$ $p = 80^0$	B_1 B_1	For 50^0. For $p = 80^0$.	Adequate practice on angle properties.
5.	P.5	**Prime numbers** 2, 3, 5, ⑦ 11, ⑬ 13 + 7 20	M_1 A_1	For the method. For the correct answer.	Make a review on types of numbers.
6.	P.6	**Total age of 3 girls** 12 years x 3 36 years **Age of 2 boys** 36 years - 10 years 26 years	B_1 B_1	For 36 years. For 26 years.	More practice on average and its application.
7.	P.6	$5ab - ab + 7xy - 2xy$ $4ab + 5xy$	M_1 A_1	For collecting like terms. For the correct answer.	Help learners in simplifying algebraic expressions and solving algebraic equations.
8.	P.6		B_2	For the correct region shaded.	Review regions of a Venn diagram involving the universal set.
9.	P.6	**Cost of 1 kg** sh. ~~12,000~~ 3000 4 sh. 3,000 **Quantity** sh. ~~18,000~~ 6 sh. ~~3,000~~ 1 6 kg	B_1 B_1	For sh. 3,000. For 6kg.	Revisit proportions in all forms.
10.	P.5	Difference 30°C - 10°C 20°C	M_1 A_1	For the method. For the correct answer.	More revision on temperature range.

11.	P.6	1, 2, 6, 15, 31, 56 +1 +4 +9 +16 +25	B_1 B_1	For the pattern. For 56.	Help learners in both increasing and decreasing patterns.
12.	P.7	No of trees = $\left(\frac{^{61}\cancel{305m}}{\cancel{15m}_{1}}\right)$ + 1 = (61 + 1)trees = 62 trees	M_1 A_1	For the method. For the correct answer.	Help learners to know why the one is added.
13.	P.7	0.00306 x 1000 3.06×10^{-3}	M_1 A_1	For the method. For the correct answer.	More practicing questions should be given to learners.
14.	P.7	TTT ✗ T ✗ 1 ✗ 1 ✗ two 1 x 2 = 2 1 x 2 x 2 x 2 = 8 8 +2 10_{ten}	M_1 A_1	For the method. For the correct answer.	Review conversion of numbers in both base ten and other bases.
15.	P.6	**Amount without discount** sh. 1 5, 0 0 0 x 2 sh. 3 0, 0 0 0 **Amount paid** 100% - 5% = 95% 95 x sh. 30,000 100 sh. 300 x 95 sh. 28,500	B_1 B_1	For sh. 30,000. For the correct answer.	Give learners more practice questions on percentages.
16.	P.5	D = S x T D = 20km x 3h 1h D = 20km x 3 D = 60km	M_1 A_1	For the method. For the correct answer.	More practice questions should be given to learners on distance, speed and time.
17.	P.7		B_2	For the correct angle drawn.	Encourage neatness and accuracy.

18.	P.7	$15 + 1 \geq 4x - 1 + 1 \geq 3 + 1$ $\frac{16}{4} \geq \frac{4x}{4} \geq \frac{4}{4}$ $4 \geq x \geq 1$ $x = \{4, 3, 2, 1\}$	B_1 B_1	For $4 \geq x \geq 1$. For the solution set.	Make a review on inequalities and solution sets.
19.	P.5	P = sum of all sides = 13cm + 3cm + 9cm + 5cm + 4cm + 8cm = 25cm + 17cm = 42cm	M_1 A_1	For the method. For the correct answer.	Revisit finding area and perimeter of shapes.
20.	P.6	2 pictos → 6 balls 1 picto → $\frac{6}{2}$ balls 3 balls $\frac{15}{3}$ balls 5 pictos ⚽⚽⚽⚽⚽	B_1 B_1	For 3 balls. For 5 pictos drawn.	Encourage learners to always divide as they get the number of pictos to draw.
		SECTION B			
21.	P.7	**Size of ext. <** $180^0 - 135^0$ 45^0 **Number of sides** $\frac{360^0}{45^0}$ 8 sides **Interior angle sum** $180^0 (n - 2)$ $180^0 (8 - 2)$ $180^0 \times 6$ 1080^0	B_1 B_1 B_1 B_1 B_1	For 45^0. For dividing. For 8 sides. For multiplying. For 1080^0.	Make a review on number of sides and interior angle sum of regular polygons.
22.	P.7	a) 100% + 20% 120% sh 120 000 = 120 100 sh $\frac{100}{120}$ 120 000 × $\frac{10}{12}$ sh 100 000	B_1 M_1 A_1	For 120%. For dividing. For sh. 100,000.	Take learners through application of percentages in all forms.
				For the method. For the correct answer.	
			M_1 A_1	For multiplying. For the correct answer.	Make a review on bases more so solving for the unknown.

		b) $\begin{array}{\|c\|c\|c\|}\hline pp & p & o \\ \hline 1 & 0 & 2 \\ \hline \end{array}_{p} = \begin{array}{\|c\|c\|}\hline 5 & 0 \\ \hline 2 & 4 \\ \hline \end{array}_{seven}$ $(1 \times p \times p) + (2 \times 1) = (2 \times 7) + (4 \times 1)$ $P^2 + 2 = 14 + 4$ $P^2 + 2 = 18$ $P^2 + 2 - 2 = 18 - 2$ $P^2 = \sqrt{16}$ $P = 4$ $P \rightarrow$ base four	M_1 M_1 A_1	For the method. For the method. For the correct answer.	
24.	P.7	a) $5p + p + 10 = 22$ $6p + 10 = 22$ $6p + 10 - 10 = 22 - 10$ $\frac{6p}{6_1} = \frac{12^2}{6_1}$ $p = 2$	B_1 M_1 A_1	For collecting like terms. For the method. For the correct answer.	Give learners enough practice questions on set concepts.
		b) $2p - 1$ $(2 \times p) - 1$ $(2 \times 2) - 1$ $4 - 1$ 3 pupils	M_1 A_1	For the method. For the correct answer.	
25.	P.6	$\begin{array}{\|c\|c\|c\|}\hline 2 & 40 & 30 \\ \hline 2 & 20 & 15 \\ \hline 2 & 10 & 15 \\ \hline 3 & 5 & 15 \\ \hline 5 & 5 & 5 \\ \hline & 1 & 1 \\ \hline \end{array}$ $2 \times 2 \times 2 \times 3 \times 5$ 8×15 120 minutes $\left(\frac{^2\cancel{120}}{\cancel{60}_1}\right)$ hours 2 hours 6 : 3 0 am. + 2 : 0 0 8 : 3 0 8:30am	M_1 B_1 B_1 B_1 B_1	For the method. For 120 minutes. For 2 hours. For adding. For 8:30a.m.	Take learners through application and G.C.F and L.C.M.
26.	P.7	a) 	S_1 L_1 W_1 C_1	For the sketch. For the base. For the scale. For 60^0.	Emphasize neatness and accuracy.



		b)	P_1	For the perpendicular.	
27.	P.6	a) **Distance A to B** D = S x T D = $\frac{60km}{1h} \times 3h$ D = 180km **B to C** D = S x T D = $\frac{150}{2_1} \times \frac{3}{1}$ D = 75km **Total distance** 180km + 75km 255km **Total time taken** (3h + $\frac{1}{2}$ + 1)h 5h A.S = $\frac{255km}{5h}$ = 51km/h	 B_1 B_1 B_1 B_1	 For 180km. For 75km. For 255km. For 5h. For 51km/h.	Help learners in finding the average speed in all forms.
28.	P.6	a) **Length** 40cm – (5cm + 5cm) 40cm – 10cm 30cm	 B_1	 For 30cm.	More revision on length, mass and capacity.

		Width 30cm – (4cm + 4cm) 30cm – 8cm 22cm	B1	For 22cm.	
		b) **Area of table** A = L x W A = 40cm x 30cm A = 1200cm² **Area of cloth** A = L x W A = 30cm x 22cm A = 660cm² **Not covered** $^{0}4\ ^{11}\cancel{2}\ ^{9}0\ ^{1}0cm^2$ $-\quad 6\ 6\ 0cm^2$ $5\ 4\ 0\ cm^2$	B1 B1 M1 A1	For 1200cm³. For 660cm². For subtracting. For the correct answer.	
29.	P.7	Goat | Cock | Total k x 7, 7k | k | sh.232,000 7k + k = sh. 232,000 $\frac{\cancel{18}k}{\cancel{8}_1} = \frac{sh.\ \cancel{232,000}^{116,000}29000}{\cancel{8}_{41}}$ k = sh. 29,000 **goat** k x 7 sh. 29,000 x 7 sh. 203,000 **cock** sh. 29,000	B1 B1 B1 B1	For the equation. For the value of k. For sh. 203,000 For sh. 29,000.	Revisit forming equations and solving them.
30.	P.6	a) $\frac{Ug.sh.\ \cancel{730,000}^{200}}{Ug.\ sh.\ \cancel{3650}_1}$ 200 US dollars	M1 A1	For the method. For the correct answer.	Make a review on exchange rates.
		b) 1K. sh → Ug.sh. 26 K.sh. 28,00 → (36 x 28,000) K. sh. → Ug. sh. 1008,000 $\frac{Ug.\ sh.\ \cancel{1008,000}^{240}}{Ug.\ sh.\ \cancel{4200}_1}$ 240 Pound Sterling	B1 B1 B1	For Ug. sh. 1,008,000. For dividing. For 240 Pound Sterling.	
31.	P.6	a) 1m = 100cm 5m = 5 x 100cm = 500cm $\frac{\cancel{200}cm}{\cancel{500}cm}$ $\frac{2}{5}$ 2:5	B1 B1 B1	For 500cm. For dividing. For 2:5.	using ratios.

		b) New number 1 2 0 0 + 3 0 0 1 5 0 0 New : old 1500 : 1200 100 100 $^{5}15 : {}^{12}12^{4}$ $_{1}3 \quad 3_{1}$ 5 : 4	B1 B1 B1	For 1500. For dividing. For 5:4.	
32.	P.	a) Total 1 1 0 9 0 + 2 0 3 6 0 **Math** 120 x $^{10}360^{0}$ 360 120° **English** 40 x $^{1}360^{0}$ 360_{1} 40° **SST** 110 x $^{1}360^{0}$ 360_{1} 110° **Science** 90 x $^{1}360^{0}$ 360_{1} 90°	B1 B1 B1 B1	For 120°. For 40°. For 110°. For 90°.	Take learners through constructing pie-chart and using it to solve problems as well.
			C1	For the pie-chart.	

