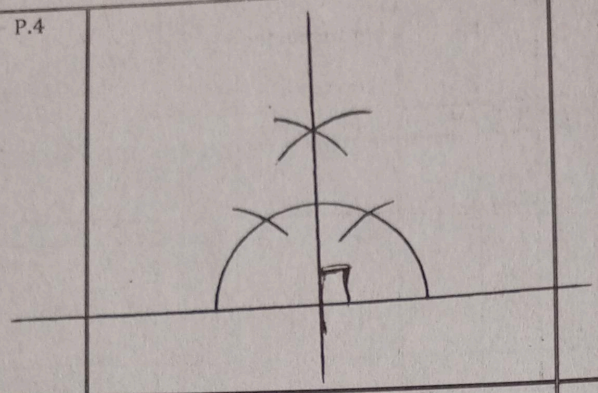
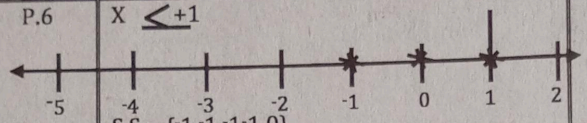
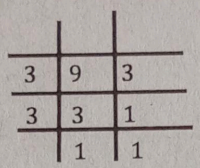
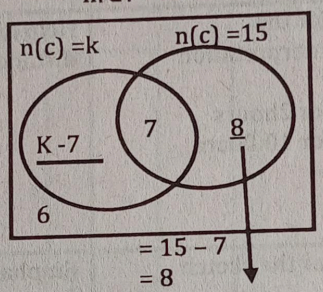
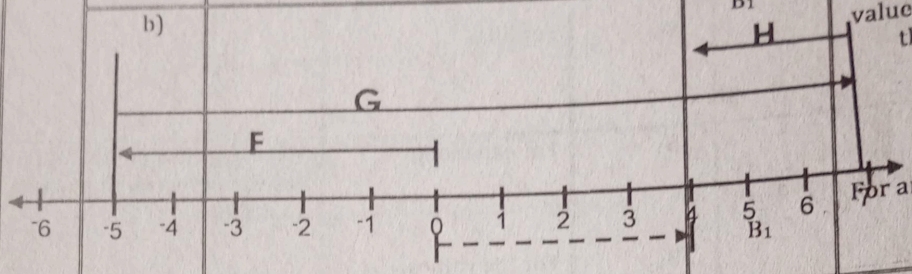
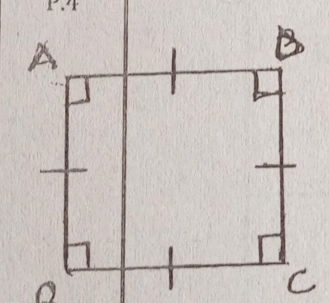
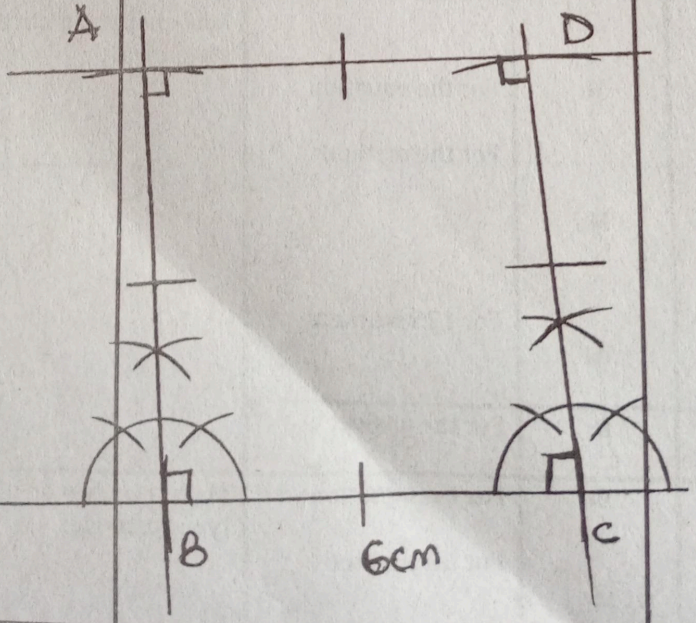
THE SIPRO PRIMARY SEVEN END OF TERM I MATHEMATICS MARKING

NO	LEVEL	SOLUTION	AWARD	REASON	COM
1.	P.2	1 2 x 4 4 8	B_2	For the product	-Reci -Teac
2.	P.6	94 = 90 + 4 = XC IV = XCIV	B_2	For the answer	Reje = XC = XC
3.	P.5	P = {a, b, c, d, e} Q = {a, c, i o u} P∩Q = {a, c} P∪Q = {a, b, c, d, e i, u} n(P∪Q) =7	B_1 B_1	For P∩Q For n(P∪Q)	Acc diag
4.	P.5	$\frac{11}{12} - \frac{2}{3} = \frac{(11 \times 1) - (2 \times 4)}{12}$ $= \frac{11-8}{12}$ $= \frac{3^{1}}{12_{4}}$ $= \frac{1}{4}$	M_1 A_1	For the method For $\frac{1}{4}$	Acc equ dra
5.	P.5	$Y + 100^0 = 180^0$ $Y + 100^0 - 100^0 = 180^0 - 100^0$ $Y = 80^0$	B_1 B_1	For the equation For 80^0	F a
6.	P.6	8 pens cost sh.10,400 1pen costs $\frac{\text{sh.10,400}}{500}$ Sh.1,300 ^{12} ~~Sh15000~~ ~~Sh1300~~ = 12 pens	M_1 A_1	For the method For 12 pens	
7.	P.6	3, 4, 2, 2, 3, 4, 2 score: 3, 4, (2) — frequency: 2, 2, 3 The modal score is 2	B_1 B_1	For the table For 2	
8.	P.5	$X2^2$ | $X2^1$ | $X2^0$ 1 | 0 | 1 $(1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0)$ $(1 \times 2 \times 2) + (0 \times 2) + (1 \times 1)$ 4 + 0 + 1 5_{ten}	B_1 B_1	For expansion For 5_{ten}	
9.	P.4	1hour = 60minutes $2\frac{1}{2}$hours = $\frac{5}{2}$ x ~~60~~^{30}minutes = 150minutes	M_1 A_1	For the method For the answer	
10.	P.4	Y + 9cm + 7cm + 9cm = 45cm Y + 25cm -25cm = 45cm – 25cm Y = 20cm	B_1 B_1	For the equation for the answer	

211.9	6 P.4		B_2	For the angle	-Revisit drawing and constructing of angles. -Guide them to bisect a
12.	P.6	X $\leq +1$  S.S = {-1,-1,-1-1,0}	B_1 B_1	For the number line. For the solution set.	Accept: S.S = {+1, 0, -1, _, _,
13.	P.6	 3 9 3 3 3 1 1 1 2 x 3 x 3 = 18 + 4 = 22 mangoes	M_1 A_1	For the method For the answer	Accept if one has use multiples.
14.	P.5	40,050 40,000 + 50 Forty thousand fifty.	B_1 B_1	For expanding For the answer	Emphasise the spell the punctuation.
15.	P.6	$^{+}8 - {}^{+}5$ $^{+}8 - (^{+}5)$ $^{+}8 - 5$ $^{+}3$	M_1 A_1	For the method For the answer	Emphasise the mult rulers.
16.	P.5	9b – 2b = 7b	B_2	For the answer	Guide the learners t rearrange like term
17.	P.7	$\frac{21-0}{100-1}$ $= \frac{21}{99}\ ^{7}_{33}$ $= \frac{7}{33}$	M_1 A_1	For the method For the answer	Accept any other m leading to correct a
18.	P.4	8 ÷ 8 = 1 8 ÷ 1 = 8 8 ÷ 2 = 4 8 ÷ 4 = 2 F_8 = {1, 2, 4, 8}	M_1 B_1	For the method For the answer	Accept correct ans sight.
19.	P.4	Area = $\frac{1}{2}$ x base x height $= \frac{1}{2} \times {}^{6}\cancel{12}m \times 9m$ = 6m x 9m = $54m^2$	M_1 A_1	For the method For the answer	Emphasise correct area and volume.
20.	P.5	Hours mins 12 : 00 -9 30 2 : 30 Hours mins 12 : 00 +2 30 15 : 30			Accept if one has u clock face. Accept 180 minute

		15 : 00 -12 : 00 3 : 00 He took 3 hours	M1 A1	For the method For the answer	
		SECTION B			
21.	P.5 a)	$X5^2$ | $X5^1$ | $X5^0$ 2 | 0 | 0 five $(2 \times 5^2) + (0 \times 5^1) + (0 \times 5^0)$ $(2 \times 5 \times 5^0) + (0 \times 5) + (0 \times 1)$ $50 + 0 + 0$ $= 50_{ten}$	B1 B1	For the expansion For 50_{ten}	Make a review on bases and regroup applicable.
	b)	$20_x = 1010_{two}$ $(2x x^1) + (0 \times x^0) = 1 x2^3) + (0x2^2) + (2 \times x)$ $+ (0 x1 = (1x2x2x2) + (0 \times 2 \times 2) + (1x2) +$ $(0 x1)$ $2x + 0 = 8 + 0 + 2 + 0$ $\frac{2x}{2} = \frac{10}{2}$ $X = 5$ The value of x is base five	B1 B1 B1	For expanding For the values For x = 5	Make a review o bases and regro applicable.
22.	P.6 a)	$n(\in) = 31$  $= 15 - 7$ $= 8$	B1 B1	For each correct gap filled.	Expose learne related questi different appr
	b)	$K - 7 + 7 + 8 + 6 = 31$ $K + 8 + 6 = 31$ $K + 14 - 14 = 31 - 14$ $K = 17$ The value of K is 17.	B1 B1	For the equation For 17	
	c)	$(K-7) + 8$ $(17 - 7) + 8$ $10 + 8$ 18 farmers	B1 B1	For correct substitution For the answer	
23.	P.6 a)	60% are females Males = 100% - 60% = 40% Let the total number be n. 40% of n = 50 $\frac{40}{100} n = \frac{50}{1}$ $\frac{100 \times 40n}{100} = \frac{50 \times 150}{1}$ $\frac{40n}{40} = \frac{50 \times 100^{25}}{40_1}$ $n = 5 \times 25$ $n = 125$ workers	B1 M1 A1	For the equation For the method For 125 workers	Mak enough statements
	b)	60% - 40% =20%	B2	For the answer	
24.	P.5 a)	$2y + 2y + 20^0 + 60^0 = 180^0$ $4y + 80^0 - 80^0 = 180^0 - 80^0$ $4y = 100^0$ $\frac{4y}{4} = \frac{100^{25}}{4}$	B1 M1	For the equation For the method	Make a rev types of ar

		Y = 25° The value of y is 25°.	A1	For 25°	
	b)	2y = 2 x 25° = 2 x 25° = 50°	B1 B1	For the method For the answer	
25.	P.5 a)	H = -3 F = -5 G = +12	B1 B1 B1	For each correct answer	Encourage the gap an starting ar
	b)		B1 B1	For each correct value of integers by the arrows. For answer arrow.	
26.	P.5 a)	Speed = D/T = 180km / 3hours =60 kilometers per hour	M1 A1	For the method For the answer	Help lea distanc -Empha
	b)	Time = D/S = 120km / 60km/h = 2hours 8:00am 2:00 10:00am He covered his journey at 10:00am	B1 B1 B1	For the interpretation For 2hours For 10:00am	Help lea distanc
27.	P.4	 	S1 L1 C1 S1	For the sketch For 6cm For right angles For joining	Empha accura

28.	P.5 a)	ab + bc (axb) + (bxc) (2 x 3) + (3x 5) 6 + 15 21	B1 B1 B1	For expanding For substituting For the answer	Revisit solving equat more on substitution
	b)	3x – 3 =33 3x – 3 + 3 = 33 + 3 12 3x = 36 3 3 X = 12	M1 A1	For the method For the answer	
29.	P.6 a)	L x W = area L x 30cm = 2100cm² 30cm = 2100cm² 30cm 30cm L = 70cm ∴height 70cm	M1 A1	For the method For the answer	Encourage learner make proper inter before answering question.
	b)	L x W = 3500cm² L x 70cm = 3500cm² 70cmL = 3500cm² 70cm 70cm L = 50cm ∴ Area ABCD = L x W = 50cm x 30cm =1500cm²	B1 B1	For 50cm For 1500cm²	
	c)	Capacity = volume 1000cm³ Base area x height 1000cm³ L x W x h 1000cm³ (50 x 30 x 70) 1000 (50 x 30 x 70) litres 1000 (5 x 3 x 7) litres (15 x 7) litres 105 litres	M1 A1	For the method For the answer	Make a review area and volum
30.	P.5 a)	3 | 9 | 12 3 | 4 G.C.F = 3	M1 A1	For the method For the answer	Revisit types
	b)	2nd 4th 2, (3,) 5, (7,) 11, 13 3 + 7 = 10	B1 B1	For listing the prime numbers For the answer	
31.	P.6	Dollars 1 us & = Ug sh. 3600 400 & = ug sh. 3600 x 400 2 Ug sh. 360000 x 4 Ug sh.1,440,000 Pound Sterling 1€ = Ug sh. 4000 300 € = Ug sh 4000 x 300 Ug sh. 40000 x 3 Ug sh. 1,200,000	B1 B1	For each correct product correct currency obtained in Uganda shillings.	Make a revi rate without exchange ra

		Kenya shillings 1k.sh = Ugsh 40 2000k.sh = ug. sh2,000 x 40 Ug sh. 20,000 x 4 Ug.sh 80,000 Ug.sh. 1,440,000 Ug.sh. 1, 200,000 + Ug sh. 90, 000 Ug sh. 2,720,000	B1 B1	For the sum
32.	P.6	$x + 140^0 + 120^0 = 360^0$ $x + 260^0 + 120^0 = 360^0 - 260^0$ $x = 100^0$ 1st term $\frac{140^0}{300^0}$ x sh 1,440,00 ~~14~~ 7 ~~x~~ sh 1,440,000 ~~36~~ 18 (80,000 x 7) shillings Sh.560,000 2nd term $\frac{100^0}{360^0}$ x sh.1440,000 ~~10~~ 40,000 x ~~1440,000~~ ~~36~~ 10 x 40,000 = sh.400,000 3rd term 1 ~~120~~ 360 x sh 1,440,000 ~~360~~ 3 $\frac{1}{3}$ x sh 1,440,000 Sh.480,000	B1 B1 B1 B1	For x = 100^0 For sh.560,000 For sh.400,000 For sh.480,000