THE SIPRO PRIMARY SEVEN MATHEMATICS BEGINNING OF TERM I MARKING GUIDE - 2023

_	Level	Solution	MKS	Reason	Technical advice
			IVITA	I/Ca30II	I CUIIIIICAI AUVICE
1.	P.1	$ \begin{array}{r} 2 \ 2 \\ + 4 \\ \hline 2 \ 6 \end{array} $	B_2	For correct answer	Put emphasis on place values
2.	P.4	45 = 40 + 5 = XL V = XIV	B 2	For correct answer	Make a review on conversion of Hindu Arabic to Roman numerals.
3.	P.6	<pre>, { cup } , { sugar } , { milk } { cup , sugar } , { cup , milk } { sugar , milk} , { cup , milk , sugar }</pre>	B_2	For correct subsets listed	Make a review on finding number of subsets.
4.	P.3	<u>3</u> 6	B_2	For correct answer	Accept $\frac{3}{6}$ $\frac{1}{2}$
5.	P.5	4, 6, 8, 9, 10, 12 Composite numbers	\mathbf{B}_2	For correct answer	Put emphasis on types of numbers.
6.	P.5	-3+5 <u>=</u> +5+-3 +2 +2	B_2	For correct answer	Guide learners to simplify before indicating the sign.
7.	P.4	5+5+5+5+2 = 22	B_2	For correct answer	Help learners to know the difference between tallies and bundles.
8.	P.5	4:40 a.m.	\mathbf{B}_2	For correct answer	Teach practically
9.	P.5	Perimeter = $S_1 + S_2 + S_3$ = $5m + 2.5m + 2.5m$ = $5m + 5m$ = $10m$	M_2 A_1	For correct method For correct answer	Put emphasis on units.
10	P.3	3 cups + 2 cups + 4 cups = 9cups	B ₂	For correct answer	Put emphasis on addition of like terms.
11	P.4	60	C_2	For correct construction	Put emphasis on neatness and accuracy.
12	P.4	Gain = Selling price - Cost price = sh 300000 - sh 250000 sh 50000	M_1 D_1	For the method For the answer	Help the learners to know other words used instead of profit.
13	P.5	9 7 5 4 TH H T O 9 7 5 4 (9x1000)+(7 x 100)+(5x10)+(4x1) 9000 + 700 + 50 + 4	B ₁	For the right number formed For correct answer	Put emphasis on place values

14	P.5	_	M_1	For the correct method	Make a review of related
14	1.5	$\frac{2}{3} + \frac{1}{5} = \frac{\cancel{15} \times \cancel{2}}{\cancel{3}^{1}} + \cancel{15} \times \cancel{15}$	1 V1]	For the correct method	questions.
		= 15 $= 10 + 3$			
		5			
		= <u>13</u> 15	\mathbf{A}_1	For correct answer	
15	P.4	15 $1m = 100cm$	M_1	For correct method	Put emphasis on conversion
		$27.8m = 27.8 \times 100cm$	1.1	1 01 0011000 11101100	of metric units.
		$=\frac{278}{10} \times 100$ cm			
		= 2780 cm		F	
			\mathbf{A}_1	For correct answer	
16	P.5	2a + 7 = 15			
		2a + 7 - 7 = 15 - 7 2a = 8	\mathbf{M}_1	For collection of like	Guide learners in collection of like terms.
		$\frac{2a}{}$ = $\frac{8}{}$		terms.	of like terms.
		$\frac{2}{2}$	A_1	For correct answer	
		a = 4			
17	P.6	$2a + a + 90^0 = 180^0$	\mathbf{M}_1	For correct method	Put more emphasis on types
		$3a + 90^0 = 180^0$ $3a + 90^0 - 90^0 = 180^0 - 90^0$			of angles.
		$\frac{3a}{2} = \frac{90}{2}$			
		$\begin{array}{rcl} 3 & 3_1 \\ \mathbf{a} & = 30^0 \end{array}$	\mathbf{A}_1	For correct answer	
18	P.6	Δ – 30	$\frac{A_1}{B_2}$	For correct answer	Put emphasis on region of
		A B			sets.
19	P.5		\mathbf{M}_1	For correct method	Accept any other method.
	1.5	2 12 16	141	Tor correct metriou	recept any other method.
		2 6 8	\mathbf{A}_1	For correct answer	
		G.C.F 2 x 2)	711	Tor correct answer	
		= 4			
20	P.4	$\frac{30}{6}$ = 5 pictos	D	For correct operation	
		₩	\mathbf{B}_1	For correct operation used.	Put emphasis on scale.
			מ	Eon come et miet - 1	
21	P.6		B_1 B_1	For correct pictos drawn For correct entry	Put emphasis on reading and
	0	n(C) = 22	-1	- 32 331300 ona j	identification of correct
			\mathbf{B}_1	For correct entry	regions of sets.
		$\left \frac{22 - p}{p} \left(p \right) \frac{23 - p}{p} \right $			
			\mathbf{B}_1	For correct entry	
				·	

		22 - p + p + 23 - p + 5 = 40	M_1	For correct method	
		$22 \pm 23 \pm 5 - n - 40$	2.21	1 01 0011000 1110 1110 11	
		50 - p = 40 - 50			
		<u>- p</u> = <u>-10</u> - 1 - 1			
		P = 10	A_1	For correct answer	
		10 people			
22 a)	P.5	TTH TH H T O 7 8 4 6 2	\mathbf{B}_1	For correct value of;	D . 1 . 1
(a)		$\int_{0}^{7} \int_{0}^{8} \int_{0}^{4} \int_{0$	D]	(i) 6	-Put emphasis on place values
		'		(ii) 8	
		¹ 8 x 1000 = 8000 8000	A_1	For correct sum	
		+ 60	Al	For correct sum	
		8060			
b)		2 7 621	\mathbf{M}_1	For correct method	
		2 7 000 + 1 000			
		$\frac{28000}{}$	A_1	For correct answer	
23	P.5	2a - 6 = 14 2a - 6 + 6 = 4 + 6	\mathbf{M}_1	For collecting like terms	Expose candidates to a
		2a - 6 + 6 - 4 + 6 2a = 10			variety of equations with different approaches.
		2 2	A_1	For correct answer	different approaches.
		a = 5	3.6	T	
		Let the number be b $2(b + 5) = 20$	\mathbf{M}_1	For correct formation of the equation.	
		$2 \times b + 5 \times 2 = 20$		1	
		2b + 10 = 20			
		2b + 10 - 10 = 20 - 10			
		2b = 10			
		$\frac{2b}{2} = \frac{10}{2}^5$	Λ.	For correct answer	
		$\begin{array}{ccc} 2 & 2_{1} \\ \mathbf{b} & = 5 \end{array}$	\mathbf{A}_1	For correct answer	
		٥			
24	P.5	Sketch	S_1	For sketch	Put emphasis on neatness,
a)	z_	, _ Y	т	Г. (accuracy and use of sharp
	<u> </u>	. 🗼	L_1	For 6cm	pencil.
	<u>L</u>	<u>- </u>			
	w	6cm X	C_1	For right angles.	
		Accurate diagram	1		
	Z		\mathbf{J}_1	For joining	
		 	-		
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	/				
		$X \cdot X \rightarrow X$			
	, /	7			
	1	W "	l		
		7			

b)	± 8	3.6cm	B_1	For the answer	
25	P.6	$M_{120} = 120, 240, 360 \dots$ $M_{80} = 80, 160, 240, 32$	B ₁	For multiples of 120 and 80	Accept any other method.
a)		CM = 240 LCM = 240 minutes 1 hour = 60 minutes	\mathbf{B}_1	For LCM	Make a review of related
		$60 \text{ mins} = 1 \text{ hour}$ $1 \text{ min} = \frac{1}{60}$	\mathbf{B}_1	For changing minutes to hours.	questions.
		$ \begin{array}{rcl} 240 & = & \underline{1} \times 240 \\ & & \underline{1} \times 60 \\ & = & 4 \text{ hours} \end{array} $	\mathbf{B}_1	For 4 hours	
b)		6 2 0 a.m.	M_1	For correct method	
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A_1	For correct answer	
26 a) b)	P.5	8 vertices Area = L x W	\mathbf{M}_1	For correct method	Put emphasis on units
U)		$= 6cm \times 5cm$ $= 30cm^{2}$	A_1	For correct answer	
c)		Volume = $L \times W \times H$ = $6 \text{cm} \times 5 \text{cm} \times 4 \text{cm}$	M_1	For the method	
		$= 30 \text{cm}^2 \times 4 \text{cm}$ = 120cm	A_1	For correct answer	
27	7++3 +(+3)		B_1	For correct arrow of ⁻ 7	Guide learners to know the right movements.
	4 		\mathbf{B}_1	For 3	
	-4		A_1	For correct answer	
	7 + +3 = -4		M_1	For correct method	
	⁻ 5 ,	, 3, 1,0,1,2,4,6	A_1	For correct answer	
28	P.6	1US dollar = Ugsh 3700 800 US\$ = Ug sh 3700 x 800 = Ug sh 2960,000	B_1	For converting dollars to Ug shillings	Take learners to bank and let the learner learn while seeing and touching.
		1Ksh = Ug sh 37 1500 Ksh = Ugsh 55,500 Total = Ugsh 2,960,000 + Ugsh 55500	B ₁	For converting K shillings to Ug shillings	
		Ugsh 3015500 Ugsh 3,015,500	B_1	For addition	

		117.1	ъ	T	
		1Ksh = Ug sh 37	\mathbf{B}_1	For converting Ksh to	
		500,000Ksh = Ug $38x 500,000$		Ugsh.	
		= Ugsh 18500,000			
		= Ugsh 18500,000		For division	
		Ugsh 3700			
		= <u>5000 US dollars</u>		For correct answer	
29	P.5	ovo es worms			Help learners to use compass
a)	1.5	N	\mathbf{M}_1	For the method	direction.
		Å NE	1,11	T of the method	direction.
		NW a 150			
		45° 45° 45°			
		W 45° 45° E	A_1	For the answer	
		45° 45°			
		SE			
		SW ♥ S			
		East			
b)		East	M	E444	
0)		Let the supplement be $K + 101^0$	\mathbf{M}_1	For the method	
		K + 101 $K + 101^0 - 101^0 = 180^0 - 101^0$	A_1	For the answer	
		$K = 79^{0}$	111	1 of the unswer	
30	P.4				
	1	$1 - \frac{2}{5} = \frac{5}{5} - \frac{2}{5}$			Give learners more numbers
a)		$= 5 - \frac{2}{5}$	\mathbf{M}_1	For correct method	to practice.
<i>a)</i>		5			to practice.
		$=\frac{3}{5}$			
		5		T 4	Accept any other method
			A_1	For the answer	Accept any other method
		3 → 300	M	For the method	
		$\frac{3}{5} \longrightarrow 300$	\mathbf{M}_1	For the method	
b)		1 → 300 ÷ <u>3</u>		E41	
0)		$\frac{100}{5}$	A_1	For the answer	
		→ 300 x <u>5</u>			
		3 -1			
		→ 500 pupils			
		500 Less boys	\mathbf{B}_1	For the method	
c)		$\frac{-300}{}$ = 300 girls			
		200 boys - <u>200</u> boys			
		100 less			
		boys	\mathbf{B}_1	For the answer	
31	P.4	Age Frequency Total age	B_1	For each correct entries	
		12 //// 60	. .		Write the ages of your
a)			B_1		learners and ask them to
		10 /// 30	-1		group.
		11 //// 44	\mathbf{B}_1		2. o.t.
			-1		
		<u>9</u>	\mathbf{B}_1		
		15 /// 45	-1		

		3	\mathbf{M}_1	For the method	
		$30 = 3$ 11×4 54 9			
		$\frac{10}{1}$ = 44 6 ₁			
		$15 \times 3 = 45$	A_1	For the answer	
		5+3+4+6+3	M_1	For the method	
b)		8 + 10 + 3	1,11	Tor the memor	
		21	A_1	For the answer	
		21	7 1	Tor the answer	
32	P.6	Duration = ET - ST			
32	P.0		D	For correct duration	
		= HRS MIN	\mathbf{B}_1	For correct duration	C: 1
		10 30			Give learners more numbers
		8 30	_		to do.
		2 00	\mathbf{B}_1	For correct method	
		2 hours			
		Distance = Speed x Time			Demonstrate practically
		$= 80 \text{km} \times 2 \text{ hr}$			
		Hr	\mathbf{B}_1	For correct answer	
		= 160km			
		Distance = Speed x Time	\mathbf{M}_1	For correct method	Make a review on related
		= 60km x 3hr			areas.
		Hr			
		= 180km	\mathbf{A}_1	For correct answer	
		Total distance = $D_1 + D_2$			
		= 160 km + 180 km	\mathbf{B}_1	For correct addition	
		= 340km			
			\mathbf{B}_1	For the answer	