THE SIPRO PRIMARY SIX MATHEMATICS MID - TERM II MARKING GUIDE 2023.

		RO PRIMARY SIX MATHEMATI	MRK	REASON	COMMENT
QN	LEVEL	SOLUTION	B ₂	For the answer	Encourage learners to
1	P.1	2 3 x 3	D2	rof the answer	recite the multiplication table.
		6 9	B ₁	For expanding	Put emphasis on
2	P.5	67 = 60 + 7 = 1.X VII			changing Roman numerals to Hindu -
		= LXVII	B ₁	For correct answer	Arabic.
3	P.6	WO K = {1, 3, 6}	B ₁	For listing numbers For the number.	Put emphasis on types of sets.
		n(W∩ K) = 3	B ₁	For showing -4.	Help learners identify
4	P.5	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DZ		the right direction of negative and positive.
	-6 -5 -	4 -3 -2 -1 0 1 2 3			
5	P.5	Let the cost of a pen be k. A pen a book total k +sh500 sh 2500	M1	For formation of the equation	Guide learners on how to form and solve equations.
ino		$\begin{array}{ll} k+k+sh500=sh2500\\ 2k+sh500=sh2500\\ 2k+sh500-sh500=sh2500-sh500\\ \underline{2k} &=\underline{sh2000}\\ 2 & 2 \end{array}$			
1	100 2000	k = sh 1000	A ₁	For correct answer	
6	P.4	5+5+5+5+5+5+2 32 children	B2	For correct answer.	Help learners differentiate between tallies and bundles.
7	P.5	$\frac{2-1}{3} = (2 \times 15^{5}) - (1 \times 15^{3})$ 3 5 3 5	M ₁	For correct method	Give learners more activities for practice.
		$ \begin{array}{r} 15 \\ = 10 - 3 \\ \hline 15 \end{array} $	3 1		Accept any other method used.
	3000	= <u>7</u> 15	A ₁	For correct answer	
8	P.5	$\begin{bmatrix} a^2 & = 36 & 2 & 36 \\ a & = (2x2) \times (3x3) & 2 & 18 \\ a & = 2 \times 3 & 3 & 9 \\ a & = 6 & 3 & 3 & 3 \end{bmatrix}$	M ₁	For prime factorisation	Guide learners on different areas how square roots are applied.
		The state of the s	A ₁	For correct answer	
9	P.4	4phones cost sh 158000 39500 1 phone will cost sh 158000 4	M ₁	For correct method	Develop a class shop and teach practically.
		Sh 39500	A ₁	For correct answer	

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10	P.4		Bz	For correct construction.	Put emphasis on neatness and accuracy,
11	P.4	Hours Min 5 35 1r15 +4 40 75 10 15 60	B ₂	For correct answer	Put emphasis on conversion of minutes to hours and vice-versa.
12	P.5	1m = 100cm 4.5m = 4.5 x 100cm = 45 x 100cm 10 = 450cm	M ₁	For the answer.	Put emphasis on conversion of metric units.
13	P.5	3 2 1 five 5 + 1 = 6 - 4 - 2 4 five = 2 2 4 2 five 5 + 1 = 6 - 2	M ₁	For correct method For the answer.	Operate bases with and without regrouping.
14	P.5	{ }, {smart}, {phone} {TV}, {smart, phone} (smart, TV}, {phone, TV} {smart, phone, TV}	B ₂	For listing all subsets.	Help learners to list clearly subsets and find them as well.
15	P.5 -7 -6 -	5 -4 -3 -2 -1 0 1 2 3 4 5 -7, -2, 0, 3, 5, 6	M₁ → 6 _{Λ1}	For using the number line. For the answer.	Assist learners on how to arrange integers in both ascending and descending order.
16	P.4	K + k - 13 years = 37years 2k - 13years = 37years 2k - (13 + 13) years = (37+13)yrs 2k = 50 ³⁵ 2	M ₁	For correct answer.	Put emphasis on formation of equations and solving them.
17	P.6	$ \frac{3}{4} = 0.75 4 4 3.00 -0 3.0 -28 020 $	M ₁	For correct method	Reject: 3 = 0.75 4 4 3 4x0=-0 30 7x4=28

		W + 110° = 180° W + 110° - 110° = 180° - 110° W = 70°	M ₁	Fort	he method,	Teach time practically. Help learners know different types of angles.
21a) I	2.6	SECTION	ONB			
	n(Σ) =	n(R) = 70 $n(R) = 55$	B ₁ B ₁ B ₁	MICROS 100	or each correct ntry.	- Teach practically - Help learners identify regions of sets.
b)		K = (70 + 20 + 55) - 120 $= 145 - 120$	B ₁		For the method	- Accept any other
b)		= 25 (70 - 25) + (55 - 25) people 45 + 30	B ₁		For 25.	
22 a)	P. 6	75 people -3 - (-6)	M	lı	For correct me	ethod Expose candidates to a variety of related questions with
b) 1	8 steps	s upwards s downwords 5 5 4 3 2 1 0 1 2 3	I	N ₁ B ₁	For correct a	nswer different approaches.
Ö	, 0	current step = -2	4	B ₁		
23a)	P.6	o t h th 7.678 7.67		M ₁	For correct	t method Put emphasis on place values of decimals.
		+0.01		A ₁	For corre	

b)		$0.25 \times 0.6 = 25 \times 6 + (15)$ $0.15 100 10 100$		For changing decimals to fractions	Make enough practice on related members
		$= 25 \times 6 \times 100^{1}$ $100 \ 10 \ 15 \ 31$ $= 5 \times 2 \times 1$ $1 \times 10 \times 1$ $= 2$	Mi	For correct method	and involve sider operations.
24a)	Ρ,	=1 =1	Λ1	For correct answer	Teach learners practically.
With the second	Sugar 2000 Sh4000	milk teacups 5000 sh 5000 sh 5000	B ₁	product.	
	Sh 10,0	2 ₁ x 5 x 5	B ₁	64	沙州周
	Cups 5x sh5, Sh 25,0		Bi	For the sum.	
		Sh 60,000	D.	For the method	
b)		sh. 60,000 + sh. 40,000 sh. 100,000	B ₁	For sh. 100,000	Encourage learners to
25a)	P.6	Radius = 5cm	R ₁	For right radius	use a sharp pencil.
En la	spines (2 = 2.5cm	J1	For joining	Put emphasis on
etg no	zię6si j	X -X	C1	For correct construction.	neatness.
	1990	Perimeter = 6 sides		E MANAGEMENT	
0)		= 5 cm x 6	B ₂	For correct ans	swer
26a)	P.5	$= 30 cm$ Speed = Distance Time $= 120 km^{60}$	M ₁	For correct me	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P
		2hour = 60km/hour	A ₁	For correct a	nswer time.

27a

b)		Duration= ending time-starting time Hrs Min 10 30 - 8 30	Bı	For duration	
		Distance = $\frac{2}{\text{speed x Time}}$ = $\frac{80 \text{km}}{\text{speed x 2hrs}}$	M1	For correct method.	
		1hr = 160km	Λ1	For correct answer	
27a)	P.5	2a + 2a - a	M ₁	For correct method.	Expose learners to a variety of related
		4a – a 3a	Λ1	For correct answer	questions with different approaches.
b)		3w - 6 = 18 3w - 6 + 6 = 18 + 6	M1.	For collecting like terms.	different approaches
		$3W = 24$ $\frac{3W}{3} = \frac{24^{8}}{3}$	Λ1	For correct answer	
28a)	P.4	W = 8		The second second	Put emphasis on place
204)	r.a	2,576 TH H T O	B ₁	For correct numeral written in figure.	value and values.
		000000000000000000000000000000000000000	B ₁	For correct representation of	
		2 5 7 6		the abacus	
b)		TH TTH H T 0 7 6 5 2 4	B ₁	For place value of 1 For value of 6	
		Sum = 6000 + 1			
		6,001	B ₁	For the sum.	
29)	P.5	Thursday	B ₁	For the answer.	Help learners to find the scale before
b)		8°c	B ₁	For correct answer	answering the
c)		Monday, Saturday	B ₁	For correct answer	questions.
d)		Average = $\frac{\text{sum of data}}{\text{No of data}}$ No of data = $\frac{14+8+12+20+18+14}{6}$ $\frac{86}{6}$ 0c $\frac{6}{3}$ = $\frac{1}{1}$ 10c	M1	For the method	
		= 11 1 0c	Å1	For correct answer	

or contracted in	-		1	A CONTRACTOR OF THE PARTY OF TH	CONTROL STATE OF THE STATE OF T
b)		Duration= ending time-starting time Hrs Min 10 30 - 8 30	Bı	For duration	
		Distance = $\frac{2}{\text{speed x Time}}$ = $\frac{80 \text{km}}{\text{speed x Time}}$ x 2hrs	M ₁	For correct method.	
		1hr = 160km	Λ1	For correct answer	
27a)	P.5	2a + 2a - a	M ₁	For correct method.	Expose learners to a variety of related
		1 4a – a	Λ1	For correct answer	questions with different approaches.
b)		3w - 6 = 18 3w - 6 + 6 = 18 + 6	M1.	For collecting like terms.	different approaches.
		$\begin{array}{rcl} 3w & = 24 \\ \underline{3w} & = \underline{24}^{8} \\ 3 & \underline{3} \end{array}$		For correct answer	
		W = 8	Λ1	Por correct answer	
28a)	P.4	2,576 TH H T O	B ₁	For correct numeral written in figure.	Put emphasis on place value and values.
		2 5 7 6	B ₁	For correct representation of the abacus	
b)		TH TTH H T 0 7 6 5 2 1 one = 1 6X1000 = 6000 Sum = 6000	B ₁	For place value of 1 For value of 6	
		<u>+ 1</u> <u>6,001</u>	B ₁	For the sum.	1137
29)	P.5	Thursday	B ₁	For the answer.	Help learners to find the scale before
b)		8°c	B ₁	For correct answer	answering the
c)		Monday, Saturday	B ₁	For correct answer	questions.
d)		Average = $\underbrace{\text{sum of data}}_{\text{No of data}}$ No of data = $\underbrace{(14+8+12+20+18+14)}_{6}$ $\underbrace{86-0c}_{63}$ = $\underbrace{10c}_{3}$	M ₁	For correct answer	

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NO. LEVEL. CORRECT RESPONSE WRONG ANSWER MARKING POINT TRECHNICAL ADDITION 1 P.5 Burning charcael/ [inexood/paraffin/ petrol/] The sun, moon Artificial sources of heat Practabili libraraet 2 P.6 Spores help a mushroom to reproduce. grows. Both are used for breathing organs. Entrinctions. 3 P.4 Both are used for breathing organs. Mater and samication. Washing cordars and spiracles as a principle bank production. Mashing cordars and spiracles as a pheir breathing organs. 4 P.5 Personal hygiene. Water and samication. Water and spiracles as a pheir breathing organs. 5 P.3 Wooler/ radio/TV/ irons/ phones/DVD player Chairs/ electric poles. The queens and spiracles as a pheir breathing organs. 6 P.6 Cell division/ binary fissions. Assumance of the production of the production of the control of the control of the production of the control of th	-		THE SALES OF THE PROPERTY OF T	EGENTED SCIENCE MIN	CHARLES IN PRINCIPLE OF	ON THE WORK
P.5 Burning charcal / firewood/ paraffin/ petrol/ The sun, moon	NO.	LEVEL	CORRECT RESPONSE	WRONG ANSWER	MARKING POINT	TECHNICAL ADVICE
P.4 Both are used for breathing. Both are Both are used for respiration Breathing organs Brow. Both are used for respiration Breathing organs Brow. Water and sanitation. Breathing organs Brow. Water and sanitation. Brow. Brow. Water and sanitation. Brow. Brow. Brow. Brow. Water and sanitation. Brow. Brown brow. Bro	1	P.5	Burning charcoal/firewood/paraffin/petrol/diesel/Electric bulb/oven/cooker		Artificial sources of heat	Practically illustrate the differe sources of heat.
P.4 Both are used for breathing / Both are Both are used for respiration breathing organs. P.5 Personal hygiene. P.6 Cell division/ binary fission. P.6 Cell division/ binary fission. P.6 Cell division/ binary fission. P.7 Aworker bee lacks an ovipositor while a queen than a queen bee than a queen be lays eggs. The firetus of politic or a fight thanges when there is stonger gravity on the moon while there is stonger gravity on the moon than on earth. Takes of physical charges there are activities of the moon than on earth.	2	P.6	Spores help a mushroom to reproduce.	Spores help a mushroom to grow.	Spores as gametes.	Emphasize parts of a fungus an their functions.
P.5 Petrsonal hygiene. P.3 woofer/radio/TV/irons/phones/DVD player Chairs/electric poles. P.6 Cell division/ binary fission. P.6 Cell division/ binary fission. P.7 A worker bee lacks an ovipositor while a queen bee lays eggs. Cell division/ binary fission. P.6 Cell division/ binary fission. P.7 A worker bee lacks an ovipositor while a queen bee lays eggs. Cell division/ binary fission. P.8 A worker bee lacks an ovipositor while a queen bee lays eggs. Cell division/ binary fission. Cell division/ binary fission fission firm fission find find fission find find find find find find find fin	60	P.4	Both are used for breathing, / Both are breathing organs.	Both are used for respiration	Lungs and spiracles as breathing organs	Discuss different organisms with their breathing organs.
P.5 (Cell division/ binary fission. P.6 (Cell division/ binary fission. P.7 Aworker bee lacks an ovipositor while a queen P.8 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks an ovipositor while a queen P.9 Aworker bee lacks and ovipositor while a queen P.9 Aworker bee lacks and ovipositor while a queen P.9 Aworker bee lacks and ovipositor while a queen P.9 Aworker bee lacks and oviporate a place of paysical changes when P.9 Aworker bee lacks and oviporate a full comparison P.9 Aworker bee lacks and oviporate a full careth, Due to lack is stronger gravity on the moon than on earth, Due to lack and there is stronger gravity on the arth, Due to lack and the lack and	4	P.5	Personal hygiene.	Water and sanitation.	Washing clothes and ironin clothes are activities done t promote personal hygiene.	
P.6 Cell division/ binary fission. P.5 A worker bea lacks an ovipositor while a queen bee lays eggs. than a queen bee. P.4 Root nodules. /Nodules P.2 It causes lameness. /Causes weakness of limbs. P.5 It helps in distillation of alcohol. / Distillation of aveer. / Leads to death. P.7 Nymph P.7 There is less force of gravity on the moon while a there is stronger gravity on the earth. / Due to less gravity on the moon than on earth.	2	P.3	woofer/radio/TV/irons/phones/DVD player	Chairs/ electric poles.	The question targeted devices which use electricity to operate.	Carry out a S practical approach to demonstrate how some of these devices work
P.5 A worker bee lacks an ovipositor. /A worker bee is smaller bee has an ovipositor. /A worker bee is smaller bee has an ovipositor. /A worker bee is smaller than a queen bee. P.4 Root nodules. /Nodules P.2 It causes lameness. /Causes paralysis of limbs. / Leads to death. High fever. / Leads to sickness. Characteristics of legumes. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. Nif P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation. P.5 It helps in distillation of alcohol. / Distillation of such or water. / Rain formation or water. / Leads to sickness. Root caps repute a put on the put on the put or water. / Leads to sickness. Root caps repute a put on the put on the put on the put or water. / Leads to sickness. Root	9	P.6	Cell division/ binary fission.	Asexual reproduction	Mode of reproduction other than type	Discuss and demonstrate budding.
P.4 Root nodules. /Nodules Root caps. / Root hair P.2 It causes lameness. /Causes paralysis of limbs. / High fever. / Leads to sickness. Causes weakness of limbs. / Leads to death. individual. / Leads to death. individual. / Leads to death. individual. / Leads to death. Distillation of alcohol. / Distillation of For boiling water View of polio to an individual. Distillation of alcohol. / Distillation of For boiling water View of physical changes. Distillation of For boiling water Distillation of For boiling water Correct spelling Distillation of For boiling water Distillation of Fo	7	P.5	A worker bee lacks an ovipositor while a queen bee has an ovipositor. /A worker bee is smaller than a queen bee.	A worker bee cleans the hive while a queen bee lays eggs.	Emphasis should be put on physical appearance differences not in their roles.	Clearly distinguish structural differences from functional differences.
P.2 It causes lameness. /Causes paralysis of limbs. / High fever. / Leads to sickness. Causes weakness of limbs. Causes weakness of limbs. Causes weakness of limbs. It helps in distillation of alcohol. / Distillation of P.5 water. / Rain formation. P.5 Waper. / Rain formation. P.2 Nymph P.2 Nymph P.3 There is less force of gravity on the moon while there is stronger gravity on the earth. / Due to the moon than on earth. P.5 There is less force of gravity on the moon than on earth. / Due to the moon than on earth. / Due to the moon than on earth.	8	P.4	Root nodules. /Nodules	Root caps. / Root hair	Characteristics of legumes.	Using real crops like beans, groundnuts, show children the different examples of legumes.
P.5 It helps in distillation of alcohol. / Distillation of For boiling water water. / Rain formation. P.2 Nymph P.5 There is less force of gravity on the moon while there is stronger gravity on the earth. / Due to less gravity on the moon than on earth.	6	P.2	It causes lameness. /Causes paralysis of limbs. /Causes weakness of limbs.	High fever. / Leads to sickness. /Leads to death.	Emphasis should be put on the effects of polio to an individual.	Take children through the effects of different immunisable diseases e.g. untreated pertussis leads to choking, breathing may stop.
P.2 Nymph P.5 There is less force of gravity on the moon while there is stronger gravity on the earth. /Due to less gravity on the moon than on earth.	10	P.5	in distillation of alcohol. , Rain formation.	For boiling water	Uses of physical changes.	Take children through different changes in the states of matter and their applications.
P.5 There is less force of gravity on the moon while there is stronger gravity on the moon than on earth. P.5 There is less force of gravity on the moon than on earth. Comparison	11	P.2	Nymph		Correct spelling	Clearly explain complete metamorphosis and incomplete metamorphosis.
	12		There is less force of gravity on the moon while there is stronger gravity on the earth. /Due to less gravity on the moon than on earth.		8	The weight of an object on the moon is less than its weight on earth.