KAMPALA PRIMARY SCHOOLS'

SKYLINE EXAMINATIONS™

P.L.E - 2022

Set 01

MATHEMATICS

Time Allowed: 2 hours 30 minutes

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DO	O NOT OPE	EN TH	IIS BO	оок	LET 1	UNTI	L YO	U AR	Е ТО	LD T	O DO	SO.		FOR XAMINE USE ONI			
Re	ead the fol	lowii	ng ins	struc	tions	care	fully	;									
1.	The pape	er has	two	Sect	ions:	A an	d B .										
2.	Section A	\ has	20	short	que	stions	s (40	mark	(s).			FOR EXAMINERS' USE ONLY					
3.	Section E	3 has	12	ques	tions	(60	mark	s).		,		Qn.	No.	MARK	SIGN		
4.	Attempt A	ALL	quest	tions.	All a	answ	ers to	o bot	h Se	ctions	s A	1 -	4				
		st be written in the spaces provided. rs must be written using blue or black ball-point				5 -	- 8										
5.	All answer	rs m	ust bo Iy dia	e wri Igran	tten ເ າຣ an	using d gra	blue phs '	or bl work	ack t	be d	oint one	9 –	12				

in pencil.

loss of marks.

use only.

7.

6. Unnecessary alteration of work will lead to loss of marks.

Any handwriting that cannot easily be read may lead to

Do not fill anything in the boxes indicated for examiners'

13 – 10		
17 – 20		
21 – 23		
24 – 26	t	
27 – 29		
30 – 32		
		.,,,,,,



SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each.

1. Work out the sum of 49 and 351.

2. Write the following numbers starting from the biggest: -1, 4, -3, +10, -5, 0, 2

3. Given the following numbers: 8, 2, 0, 1, 5, 3, 6, 4 and 7. What is the probability of randomly choosing a prime number from the given digits?

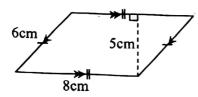
4. Simplify: 9K - 5p - 5K + 6p - 8p - 6K 5. Write the time twenty five minutes past midnight in figures in 24hour clock system.

6. Using a ruler, a pencil and a protractor only, construct an angle of 150° .

7. What is 12012 in words?

8. Work out 7 + 5 = (finite 8)

9. Find the area of the figure given below.



10. Omondi has bank notes numbered from KQ600 to KQ699. If each note is worth Shs.20,000/=. How much money does he have?

- 11. Express 22½% as a fraction in its lowest | 12. Given that Set $W = \{2, 4, 6, 8\}$. form.
 - How many subsets can be created from Set W?

13. The cost of a shirt and a belt are in the ratio 5:3 respectively. If a shirt costs Shs.2,000/= more than the belt. Find the total cost of the two items.

- **14.** Find the value of A: $2^3 \times 2^A = 2^7$
- 15. Solve for X: $^{-}2 = 4 X$

16. Show $^{-1}$ - $^{-2}$ on the number line below.

17. Add: 1 1 0 0 1 binary + 1 1 1 1 binary	18. Denis is 24 years old now. Represent his age using tallies.				
<u>binary</u>					
	,				

19. Mukisa travelled a distance of thirty kilometres in two hours and thirty minutes. Calculate his average speed in kilometres per hour.

20. In what time does Shs.20,000/= amount to 20,750/= at an interest rate of 5% p.a.?

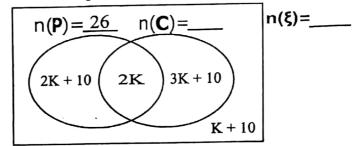
SECTION B: 60 MARKS

21. (a) Work out: $\frac{1.6 \times 1.2}{0.016}$

(2 marks) (b) Express 1/8 as a decimal.

22.(a) When a tank is ¾ full of water, it holds 9000 litres. Find the number of litres the tank will hold when 3/3 full. (3 marks) 23. The Venn diagram given below represents people who grow potatoes and cassava in Kasingawa village. The complement of those who grow cassava has 32 people.

Use the diagram to answer the questions that follow.



(a) What is the value of **K**?

(2 marks

(b) How many people don't grow potatoes in that village?

(2 marks)

(c) Find the ratio of farmers who grow potatoes only to those who don't grow potatoes.

(2 marl

- 24. Three taxis set off from the New Taxi Park at intervals of 20minutes, 30minutes and 40minutes respectively.
- (a) After how long did they meet together?
- (b) If they met at 10: 5a.m., at what tim will they meet again? (2 marks)

25. (a) Solve for n:
$$n-5=8-(2n+4)$$
.

(2 marks)

(b) Given that a = 3, b = 1. What is the value of $3a^2 - 3b$?

(2 marks)

26. The table below shows the marks P.7 pupils scored in End of 2nd Term examinations, 2022. Study it and use it to answer the questions that follow.

Number of Pupils	30	15	25	40	20
Marks scored	2	1.	1	4	2

(a) What is the modality mark of the class?

(I mark)

(b) Find their median mark.

(2 marks) (c) Work out the probability of the pupils who scored below their average mark.

27. (a) Given that $24_y = 102_{four}$, find the value of y.

(3 marks

(b) Work out $(0.52 \times 120) - (0.52 \times 20)$ using the distributive property.

28. Kibazo went to the supermarket and bought the following items:

(a) Complete the table correctly.

5 marks → 1 mark each

			(5 marks 7 1 mark each)
ITEM	QUANTITY	UNIT COST	AMOUNT
Beans		Shs.3,400/=	Shs.5,100/=
Sugar	3Kg	Shs	Shs.10,800/=
Maize flour	750gm	Shs.4,000/= each Kg	Shs
Milk		Shs.3,200/= each litre	Shs.11,200/=
	*	TOTAL	Shs

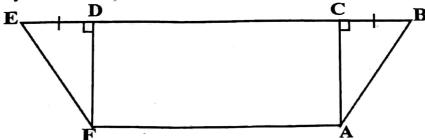
(b) If he was given Shs.9,900/= as change, find the number of Shs.5,000/= notes he had at the beginning.

29. (a) With the help of a ruler, a pencil and a pair of compasses *only*, construct a triangle XYZ in which side XY = 6cm, angle $ZYX = 120^0$ and YZ = 7cm. (4 marks)

(b) Measure angle ZXY.

(1 marl

30. The trapezium below is of height 8cm. Sides BD and BA are 19cm and 10cm respectively. Study it carefully and answer the questions that follow.



(a) Work out the perimeter of the figure.

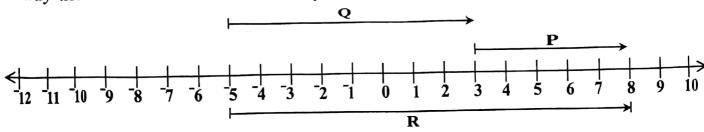
(3 marks)

(b) Calculate the area of t e trapezium.

(2 marks



31. Study the number line below carefully and use it to answer the questions below.



(a) Write the values of:

(1 mark each)

P_____

Q _____

R _____

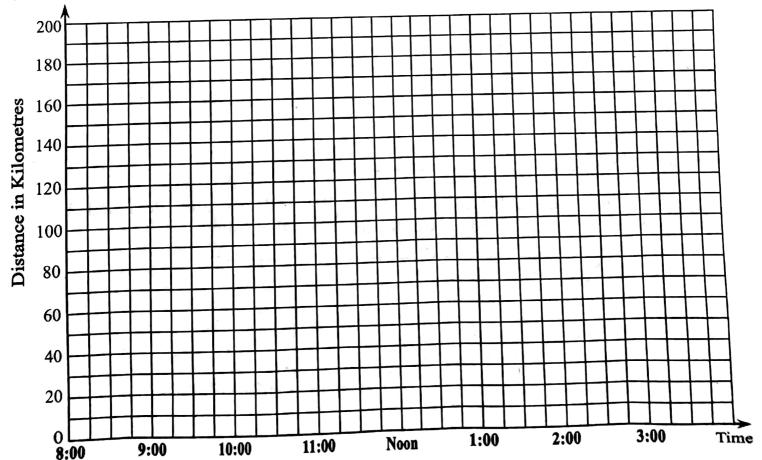
(b) Write down the mathematical sentence shown on the number line.

(1 mark)

32. A bus left town A at 8:00a.m. and moved for 2 hours at a steady speed of 40Km/hr to town B, then broke down for one hour at town B and then continued with the journey to town C at a steady speed of 40km/hr for 1 hour. The bus rested at town C for one hour and then covered the return journey to town A at a steady speed of 40Km/hr.

(a) Represent the journey of the bus on the grid below.

(4 marks)



(b) Work out the average speed of the bus for the whole journey.

(2 marks