KAMPALA PRIMARY SCHOOLS'

SKYLINE EXAMINATIONS™

P.L.E - 2024

Set 04 (FINAL)

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Ind	lex No.			
Car	ıdidate's Name:			
Car	ndidate's Signature:			
Sch	ool Name:			
Dis	trict Name:			
	NOT OPEN THIS BOOK LET UNTIL YOU ARE TOLD TO DO	o so.	FOR EXAMIN USE ON	ERS'
1.	The paper has two Sections: A and B.			
2.	Section A has 20 short questions (40 marks).	FOR EXAMINERS' USE ONLY		
3.	Section B has 12 questions (60 marks).	Qu. No.	MARK	SIGN
١.	Attempt ALL questions. All answers to both Sections A	1-4		
	and B must be written in the spaces provided.	5-8		
5.	All answers must be written using blue or black ball-point ben or ink. Only diagrams and graphs work may be done in pencil	9 - 12		
		13 - 16		
5.	Unnecessary alteration of work will lead to loss of marks.	17 - 20		
7.	Any handwriting that cannot easily be read may lead to loss of marks.	21 - 23		
		24 26		
8.	Do not fill anything in the boxes indicated for examiners'	27 - 29		
	use only.	30 - 32		
		TOTAL		

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Turn Over



SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each.

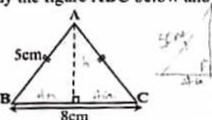
Multiply: 123 x 2

2. Write "Eight thousand eighty eight" in

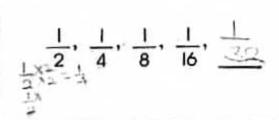
Figures.

English House of 5000 to 64

3. Study the figure ABC below and use it to work out the height of the triangle.



4. What is the sequence:



next number in the 5. Solve the inequality: $18 \le 4n+6 \le 30$

12-41-6430 1-6441+6-64306 四点40,+0点到 1 -n -6

Karamagi sold his radio at Shs.140,000/= and realised a gain of Shs.40,000/=.

What is his percentage gain?

- 109e yun = 1100 × 109% = 140 × 109% = 140 × 109%
- 7. A bag contains 10 blue pens and 8 red pens. If a pen is picked from the bag at random. Find the probability of picking a blue pen.

Total ne of pen.

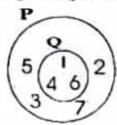
8. A polygon has an interior angle sum of 10800. How many sides has the polygon?

11-2+2 = 6+2 1-0 =62

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Using the figure below, find n(P - Q).



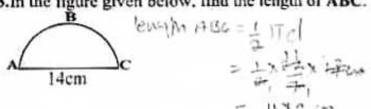
10.Kanyike deposited Shs.200,000/= in the bank. If the interest rate was 10% per month. How much interest did he get after the 8 months?

SIZ FXHXT = S1200,000X 1070X 3110 0 = WASCEDAL !

11.Subtract 3m - 2n from 5m - 2n

12. Given that Set X = {1, 2, 3}. Write all the proper subsets of Set X. (3,21) 2) 233.23

13.In the figure given below, find the length of ABC.

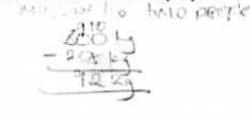


14. What is the mean of 1/2 and 3/4?

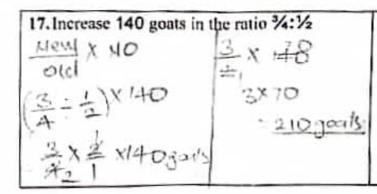
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- 15.Express % to decimal form. 5-0.63.
- 16. The average mass of 4 people is 52Kg. When two people join them, their average mass becomes 50Kg. Find the mass of the two people.

= 415249 = 205 kg

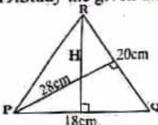


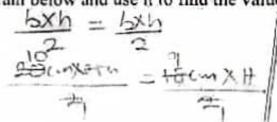
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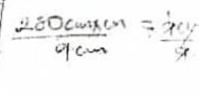


18.Subtr	act: 1011two - 110two
	131 Imo
	- 110 1010
	0101 mo
-	

19.Study the given diagram below and use it to find the value of H.

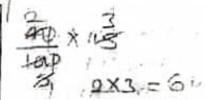






20. Shade 40% of the diagram below.

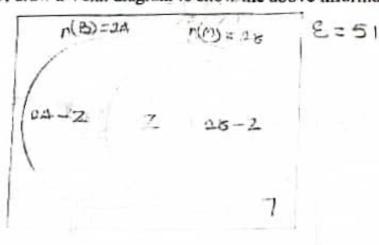
11/4	Wh.	14	11/4	11/1
V///				
			-	



SECTION B: 60 MARKS

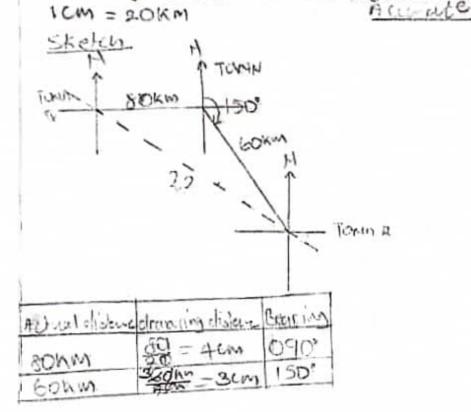
- 21. Given that n(B) represents pupils who like Beans and n(M) represents pupils who like Meat in Masaku Parents School. If $n(\xi) = 51$, n(B) = 24, n(M) = 28, $n(B \cup M)' = 7$ and those who like both Beans and Meat are Z.
- (a) In the space below, draw a Venn diagram to show the above information.

$$5:51$$
 $n(8)=24$
 $n(6)=26$
 $n(6)=7$
 $n(6)=7$
 $n(6)=7$



(b) Using the diagram, find the value of Z.

24.(a) Town Q is 80Km on the eastern side of Town P and Town R is 60Km from Q on bearing of 150°. Draw an accurate diagram to show the position of the three towns



(b) Find the shortest distance between Town P and Town R.

(2 marks)

25.(a) Three Kikuubo traders bought rice from Kigumba Rice Scheme as follows: 13 marks) (K+3)metric tonnes, (3K-10)metric tonnes and (2K+5)metric tonnes.

The total quantity of rice bought was 64 metric tonnes. Calculate the value of K.

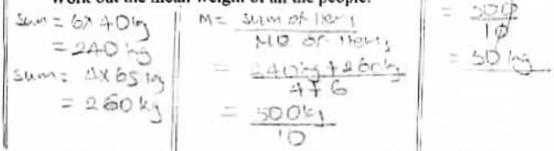
K+3+3k-10+2k+5=64
$$2k = 66$$
K+3k+9k+3+5-10=64 k
6k-2 $= 64$
6k-2 $= 64$
6k-0 $= 66$
6k $= 66$

(b) What is the largest quantity of rice in metric tonnes that was bought by the traders?

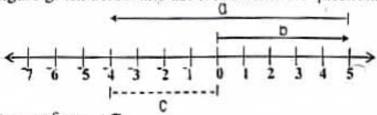
$$x+3 = 11+3$$
 = $2x+5 = 2x+5$
= 14 hones : = 27 hones ?
 $2x - 10 = 3x+11 - 10$ | 14 hones ; $2x \text{ hones}$ = 27 hones | 27 hones |

(e) If those who like only one type of sauce received Shs.5.000/= each from their headteacher, how much money did the headteacher give pupils altogether? (2 marks)

22.(a) The mean weight of 6 people is 40Kg and the average of another 4 people is 65Kg. Work out the mean weight of all the people. (3 marks)



(b) Study the figure given below and use it to answer the questions that follow.



(i) Give the integer of arrow a.

(ii) Write the mathematical statement of the above figure.

- 23. Anita has to fence her rectangular plot of land measuring 335 metres by 265 metres 16 of poles with poles placed 5 metres apart.
- (a) What number of poles does she need?

(b) If the cost of each pole is Shs.3.500/=, how much money will she spend on fencing her land? (2 marks)

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(I mark)

(1 mark)

(3 marks)

29.(a) A wheel of a vehicle covers a distance of 484 metres in 100 Revolutions. How wide is the wheel? (Take π as $^{22}/_{7}$)

(b) 40% of the members in the Music club are boys and girls are 90 in this club.

30.(a) Saleh drove from Kampala to Mbale at a steady speed of 80Km per hour for 2 hours. He then continued to Soroti at the same speed for 3 hours. Calculate his

average speed for the whole journey.

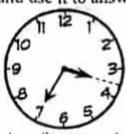
$$D = S \times 6$$

$$= 80 \text{ km} \times 2 \text{ km}$$

$$= 160 \text{ km}$$

$$= 160 \text{ km}$$

- AV 1 = 120
- (b) Study the clock face below and use it to answer the questions that follow



(i) If the activity that began at the afternoon time shown on the clock face above took

= Hr. Min 3 :35 pm +3 :10 14 (ii) Write the ending time in 24 hour clock system.

On

12:00

HIS min 6:45pm 100 1115

3:35 p.m

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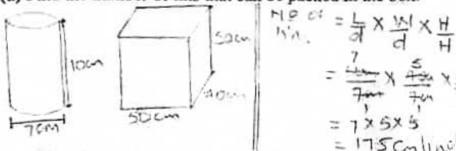
26. The sum of values in the table below are the same diagonally, vertically and horizontally. Study it carefully and fill in the missing values to comple the table. (5 marks)

14 14	27	28	17	d=86-(24+23+15)	e = 86-(28+17+= = 86-10
25	20	19	00	1=86-65	= 16 a = 56-(25+21+2
21	24	23	18	===1 =================================	: 86-72
26	15	16 4	29	= 86-64	6 = 86-(20+24+1

27.In a factory, Blue Band cylindrical tins of diameter 7cm and height 10cm are to be packed in a box measuring 50cm by 40cm by 52cm.

(a) Find the number of tins that can be packed in the box.

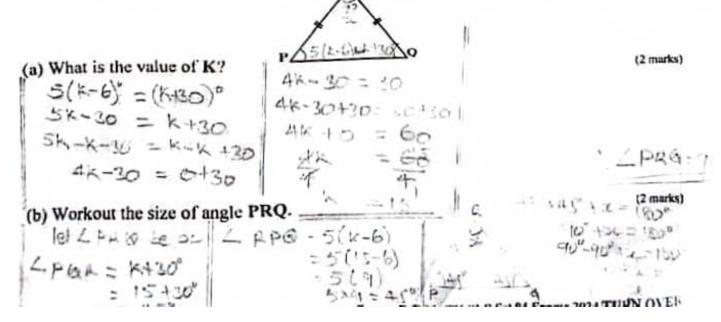
(2 marks)

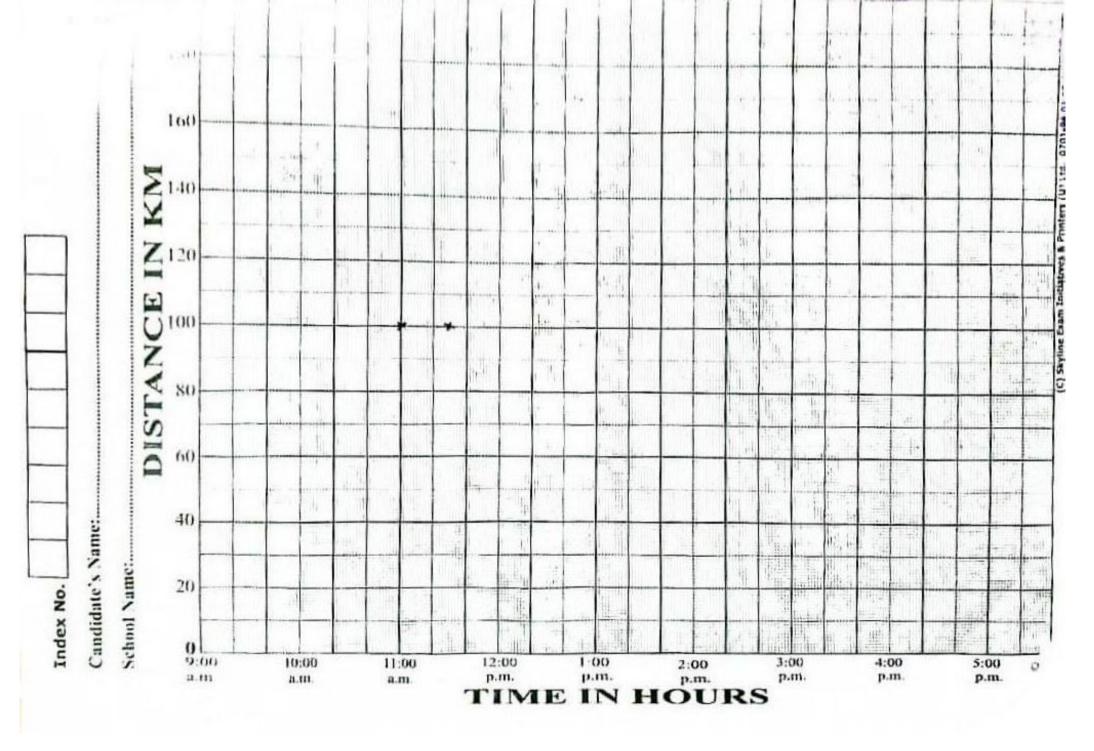


(b) Calculate the amount of space left in the box after packing all the needed Blue Band tins.

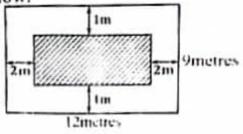
Villing of the box	Volum =+ 411	= 25×11×7×1×5 (2 marks)
v = Base and rieght.	cyline's	=67375 m3
ニムセンナト・	Y Book or renx Solitar	stolement of some left
= 50mx 410-1752-	= 175 11(2)	104.000 cm-
= 104,000cm3	= HBX 些X ILX I -> Eun	-67,375 cm3
	T. 4 三.	36625 Cm2

28.In the diagram PQR in an iscoceles traingle in which angle RPQ is five times (K-6)⁰ and angle PQR is K+30. Use it to answer the questions that follow.



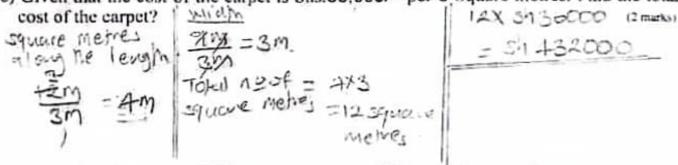


31. The figure below shows a carpet placed inside a sitting room. Study it and use it to answer the quetions that follow.



(a) Work out the area of the carpet.

- Length = 12m (2m + 2m) = 12m 4m = 8m = 9 2m = 7mGiven that the cost of the covered by the carpet. $| \theta = 4xy| = 5mx7m$ = 6mx7m = 6mx7m(b) Find the area of the floor not covered by the carpet.
- (c) Given that the cost of the carpet is Shs.36,000/= per 3 Square metres. Find the total



- 32. Mungo left Town A at 9:00a.m. and drove at 50Km per hour for 2 hours to Town B. He took half an hourmending the tyre of his vehicle at Town B. He then left Town B and drove for 1 hour and 30 minutes at a steady speed of 40Km per hour to Town C. He rested for 30 minutes at Town C. He then left Town C and drove back to Town A at a steady speed of 80Km/hr.
- (a) Draw Mungo's journey on the graph provided on Page 10.

(3 marks)

(2 marks)

