KAMPALA PRIMARY SCHOOLS'

SKYLINE EXAMINATIONS™

P.L.E - 2024

Set 01

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	
Candidate's Name:	
Candidate's Signature:	
School Name:	
District Name:	
DO NOT OPEN THIS BOOK LET UNTIL YOU ARE TOLD TO DO SO.	FOR EXAMINERS'
Read the following instructions carefully;	USE ONLY
1 The paper has two Sections: A and R	

- Section A has 20 short questions (40 marks).
- 3. Section B has 12 questions (60 marks).
- Attempt ALL questions. All answers to both Sections A and B must be written in the spaces provided.
- All answers must be written using blue or black ball-point pen or ink. Only diagrams and graphs work may be done in pencil.
- 6. Unnecessary alteration of work will lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the boxes indicated for examiners' use only.

	EXAMII SE ONL	
Qn. No.	MARK	SIGN
1-4	1221	2.1
5-8		
9 – 12		
13 – 16		
17-20		
21 - 23		
24 – 26		
27 – 29		
30 - 32		
TOTAL		

SECTION A: 40 MARKS

Questions I to 20 carry two marks each.

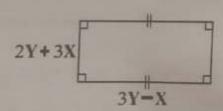
I. Find 0.081 + 0.03

2. Write MCDXCIV in words.

3. Two bells ring at intervals of 25 minutes and 40 minutes respectively. They range together at 10:40a.m. for the second time. At what time did they ring together at first?

- 4. If Set $K = \{0, 1, 2, 3\}$. What number | 5. Given that 2X 6 = 14of proper subsets has Set K?
 - Find 4X ÷ 5

6. Work out the perimeter of the figure below.



- 7. Budende Primary School has 1085 8. Mary and Kate share mangoes in the pupils. If the girls are 786. How many ratio 3/4: 3/5. How many mangoes did each of them receive?

- 9. The bearing of B from A is 240°. Find the direction of A from B.
- 10. The marked price of a radio is Shs.50,000/=. Mabirizi paid Shs.15,000/= less as a discount for eash. Find the percentage of the cash price for the radio.
- 11. In a straight line, Kabazira is the fifth from the right and the seventh from the left. How many children are in the line?
- 12. The probability that Ali will visit Nairobi is 0.75. What is the chance that he will not visit Nairobi?

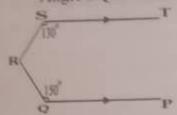
13. A bus began on a 360Km journey at 6:30a.m. and reached its destination at 8:00a.m. Find the average speed of the bus.

- 14. Express "Twenty five minutes to Nine" in the evening in twenty four hour clock.
- 15. What is the complementary angle of: $(3X + 30)^{\circ}$

16. Two hundred fifty five mango seedlings were planted in rows. If each row had seventeen seedlings. What number of rows were formed by the seedlings.

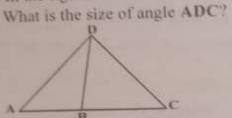
25. (a) Given below is a geometrical figure where PQ is parallel to ST. Angle PQR = 150° and angle TSR = 130° . Find the size of angle QRS.

(2 marks)



(b) In the figure below, ABC is a straight line where AB = BC = CD. Angle $ADB = 35^{\circ}$.

(2 marks)



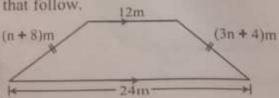
- 26. Given that six consecutive even numbers have their median as 65.
- (a) Write down all the six even numbers.

(4 marks)

(b) What is the range of the numbers?

(I mark)

27. The figure below represents an Isosceles trapezoidal container. Study it and use it to answer the questions that follow. 12m



(a) What is the value of n?

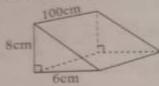
(3 marks)

(b) Find the perimeter of the figure.

(2 marks)

- 17. The weight of a box containing 100 books is 40Kg. The empty box weighs 5Kg. What is the weight of each book?
- 18. Express 0.1666... as a common fraction in its lowest term.

19. How much water does the container of the given shape below hold?



20. Calculate the rate of interest at which Shs.60,000/= will generate a simple interest of Shs.6,000/= in 2 years.

SECTION B: 60 MARKS

- 21. The interior angle of a regular polygon is five times its exterior angle.
- (a) Work out the size of the interior angle. (3 marks)
- (b) Calculate the total interior angle sum of the polygon. (2 marks)

22.(a) Bulintamira village have 160 more females than males. The males are 30% of the whole population of Bulintamira village. How many female persons are in that village? (3 marks) (b) If each person in that village was given 250 layers birds by the government of Uganda as entandikwa for Bonna Baggaggawale. How many birds did the people in that village receive altogether?

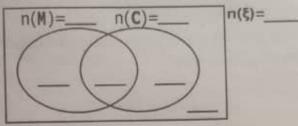
it is a club of 50 members, a fifth of the members eat meat only n(M). Half of the remainder eat both meat and chicken n(C), 3y eat chicken only while 2y dislike any of the two kinds of foods.

(a) Represent the given information on the Venn diagram below.

(3 marks)

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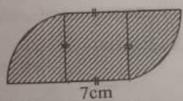
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(b) Find the number of members who eat meat.

(2 marks)

24 Study the figure below and use it to answer the questions that follow.



(a) Work out the distance around the given shape.

(3 marks)

(b) Calculate the area of the given shape.

(3 marks)

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of mrks) 28. Kole owns a store in Kijjo town. He buys different crops from farmers and then sells them as shown in the table below. Use it to answer the questions that follow.

TYPE OF CROP	BUYING PRICE	SELLING PRICE
1/2 Kg of Rice	Shs.1,000/=	Shs.1,250/=
1Kg of Cowo	Shs.3,800/=	Shs.4,000/=
250gm of Cocoa	Shs.2,000/=	Shs.2,500/=
1Kg of Cotton	Shs.4,500/=	Shs.5,000/=

(a) If Kole sold 5,000Kg of cotton and 1,000Kg of Cowo. What profit did he make?

(b) Kole made a gain of Shs.200,000/= on Cocoa. How many kilograms did he sell?

29. A bus travelling at 75Km per hour took 4 hours to cover part of its journey. The remaining 180Km was covered at a speed of 60km per hour. What is the average speed of the bus for the whole journey?

30. With the help of a ruler, a pencil and a pair of compasses only, construct a square PQRS where diagonal PR = 6cm.

(b) Find the distance around the square.

(2 marks)

31. Given that 2y = 2X + 2, use it to complete the table below.

(3 marks)

Х	0		4	3		
У		3			6	-6

- 32. On Juma's animal farm 1/4 of the animals are goats. 1/3 of the remaining animals are sheep. If the rest of the animals are 100;
- (a) How many goats are on the farm? (3 marks) (b) Find the number of sheep on the farm.

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- This paper has two sections: A and B.
- Section A has 20 questions (40 Marks).
- Section B has 12 questions (60 Marks).
- 4. Attempt all questions in both sections All answers to both sections A and B must be written in the spaces provided
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"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

1 - 5 6 - 10 11 - 15 16 - 20 21 - 22 23 - 24
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Please turn over



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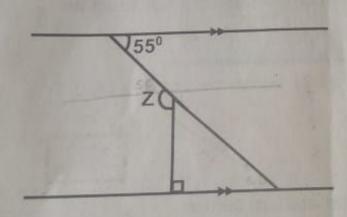
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8. The volume of a cube is 27cm3. Work out its total surface area.

9. The probability of electing a boy as a class monitor is 5. If there are

36 girls, how many boys are in the class?

10. Calculate the size of angle marked Z in degrees.



 $3w = 4 \pmod{7}$ 11. Find the value of w:

SECTION A: 40 MARKS Attempt all questions in this section isical chan Questions 1 to 20 carry two marks each. 1 4 1. Work out: anges dif 2. Write 14,019 in words. e occurs Fourteen thousand, nineteen nented b 3. Solve for e: e - 6 = 11 pods. e-6 =11 e-4+6 =11+50 e =17 / opods \ 4. Subtract: days hours 4442-27 ng ant 27-14 22 weat s that 5. Use the diagram below to find the shaded percentage. s de 6. Given that set W = Ø, how many subsets has set W? Nº PF elements = 0 , No of subjet & no si Complete the sequence;

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IGNITE CHETICAL THINKING & EXPERIENCE ACTUAL LEAD

12. A hawker bought 3 dozens of exercise books at sh. 13,500.

He later said each exercise book for sh. 2,200. Calculate his profit.

13. Solve and write the solution set for p.

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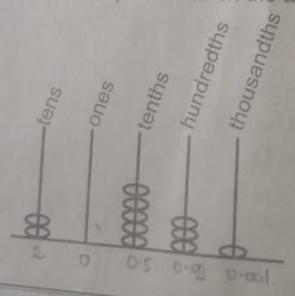
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Solution set for P = { S+ #}

14. Using a ruler, a pencil and a pair of compasses only, construct an angle of 60°.

15. Find the number represented on the abacus below.



0.500

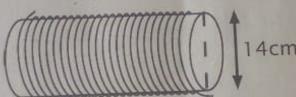
16. A science quiz which ended at 4:15 p.m. took 90 minutes. At what time did it start?

2145 Starting ET-D

17. Oliva bought a television set at Ug sh. 2,190,000. If one US dollar costs Ug·sh. 3,650, how many US dollars did she pay?

3650y = \$131,90,008 3650

600 US doll ary / 18. In the diagram below, a string is wound round a cylindrical pipe of diameter 14cm.



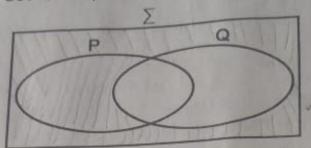
If the string is wound up 100 times, how long is the string?

b⁴ x b³ 19. Work out:

65 = 67-5 6x6x6x6x6x6x6

(b) If each full tin of petrol costs sh. 25,000, how much money is needed to fill tank W? (02 marks) 1 Full Cup = 41.24000 mg 1001-110-ps = 4.25000 x 100 = shasoabo my 29(a) Write 394.72 in standard form. (02 marks) soln 394.72 = 394772 00 = 3.9472×10 /m (b) Solve for k: $3^{2k} \times 3^2 = 81$ 0×+0 = U 30. Port K is 80km from port W on a bearing of 060°. Port Y is 60km from port W on a bearing of 300°. (a) Using the scale drawing of 1cm to represent 10km, draw an accurate diagram for the above information. (04 marks) Stately (01 mark) (b) Find the shortest distance from port K to port Y in km. Shortest distance = 124 × 10 = 122 Mm

20. Shade set Q complement in the figure below.



SECTION B: 60 MARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.

21. Babirye bought the following items from the shop:

- 2kg of cowpeas at sh. 4,000 per kg.

- 12 oranges at sh. 1,500 for every 4 oranges.

- 2,500g of rice at sh. 6,000 per kg.

- watermelons at sh. 10,000.

(a) Work out her total expenditure.

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(04 marks)

(b) If she was given a discount of 5%; how much did she pay? (02 marks)

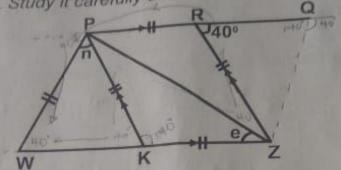
5 × 370×00 She Pay = ch. 37, 600

22. In a class, $33\frac{1}{3}\%$ of the pupils like football, 2 of the remaining pupils like Hockey and the rest like Tennis ball. If 30 pupils like Tennis ball; (b) Calculate the total numbers of the state (a) Work out the fraction of pupils who like Hockey. (02 marks) (b) Calculate the total number of pupils in the class. Let the me of propole be in 2/44 = 30 = 75 pupils V 5 -30x5 23(a) Write the place value of 3 in 321 five. (01 mark) - Five fires y (02 marks) (b) Find the value of 3 in (a) above. (02 marks) (c) Expand 321 five using exponents. 32 = (3x100) Fine + (0x10) Fine + (1x10) Fine V

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24. In the figure below, line PQ is parallel to line WZ and angle QRZ = 40°. Study it carefully and answer the questions that follow.



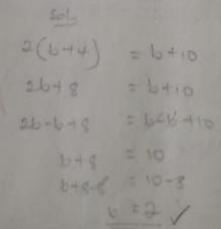
(a) Find the size of angle e.

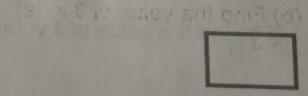
(02 marks)

(b) Work out the size of angle n.

(03 marks)

25.(a) Solve for **b**: 2(b+4) = b+10

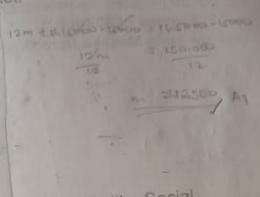




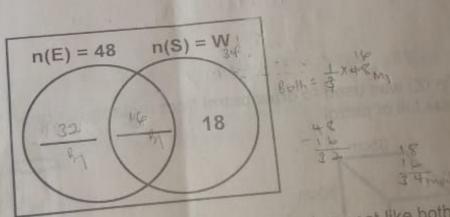
(02 marks)

(b) At a supermarket, a basin costs sh. 3,000 more than a bucket A saucepan costs two fifths of the cost of a bucket. If all items cost sh. 33,000, calculate the cost of a bucket.

	ALL MARKS	Car Capan	Sum-
Burgat	basin	35m	\$ 51,000
	m+1000	- La maria	M
	1	= 44334	100x X
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m +m+	200 + 3	= 01,23	,000
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15		= 41-5	30000-5
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Z y 12 4	n 4 12000	m + 10000 = 60-1	65000
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- 26. In a group of pupils, 48 like English (E), W pupils like Social studies (S). Athird of the pupils who like English also like Social studies and 18 pupils like Social studies only.
- (a) Complete the venn diagram below using the information above. (03 marks)



(b) What is the probability of picking a pupil who does not like both (02 marks) subjects?



31. The pictograph below appresents tomatoes sold in a market per day by Mrs. Ssebuggwawo. Monday Tuesday Wednesday Thursday Friday Note: (*) represents 10 tomatoes. (a) How many tomatoes were sold on Thursday? 1. tomber = 10 tomators (b) How many more tomatoes were sold on Friday than on Tuesday? (c) Express the number of tomatoes sold on Monday as a percentage of the total number. 32(a) Work out: 0.24 + 0.6 0000 PRE-PLE SET I MATHEMATICS EXAMINATIONS

27. A motorist left Bushenyi at 9:45a.m. and reached Masaka at 11:15 a.m. at a speed of 60km/hour. After staying in Masaka Town for 30 minutes, he moved back to Bushenyi using the same route at a speed of 30km/h. (02 marks)

(a) How far is Masaka from Bushenyi?

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(b) Calculate the motorist's average speed for whole journey. (03 marks)

28. Tin (Z) was used to draw petrol from rectangular tank (W) which was full of petrol.

