

KAMPALA PRIMARY SCHOOLS' SKYLINE EXAMINATIONS™

Pre-MOCK – 2024

2

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

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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'
USE ONLY

Read the following instructions carefully;

1. The paper has **two** Sections: **A** and **B**.
2. Section **A** has 20 short questions (40 marks).
3. Section **B** has 12 questions (60 marks).
4. Attempt **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. 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.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated for examiners' use only.

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

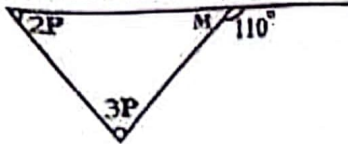
SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each.

1. Divide: 36 by 4

2. Find the difference between the values of 1 and 4 in the number 6.14.

3. Find the value of P in the diagram.



4. Simplify: $\frac{2x^3 \times 3x^4}{6x^5}$

5. Name a regular polygon whose interior angle is 140° .

6. The reading of a thermometer dipped in a cup of water was 17°C . When the thermometer was transferred to a cup of hot water, the temperature rose by 68°C . What was the new reading on the thermometer scale?

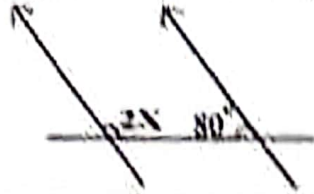
7. If a shopkeeper sells a radio for Shs.48,000/=-, he makes a gain of 20%. Find what he paid for the radio.

8. Chelimo extracted oil from castor seeds. She filled 120 bottles each holding 500ml. How many litres of oil did she extract from the seeds?

9. (i) Arrange $^{\circ}2$, $^{\circ}4$, $^{\circ}3$, $^{\circ}0$, $^{\circ}7$ and $^{\circ}8$ in descending order.

(ii) Write the number 144 in Roman numerals.

10. Find the value of X in the given figure.



11. Four boys scored an average of 75 marks. 3 of the boys scored 92, 80 and 68. What was the score of the 4th boy?

12. A prayer session started at 10:00p.m. at night and it ended at 11:00a.m. in the morning. How long did it last?

13. YY Coaches Company dispatches a bus from Kampala to Mbarara every after 40 minutes and a bus to Bweyale every after 45 minutes. Two of their buses left Kampala; one for Mbarara and another for Bweyale at 9:30a.m. At what time will such two buses leave Kampala together again?

14. Find the number of poles needed to fence a rectangular field of 50 metres by 40 metres if the poles are placed 5 metres apart.

15. 10 builders can complete tiling the floor of a house in 24 hours. How long will it take 36 builders to do the same job while working at the same rate?

(i) In the diagram below, write down the fraction of the un-shaded part.



(11) Write 38 using tallies.

17. Study the diagram below and use it to work out the value of h .



18. The cost of 10 bags of G.nuts is Shs.316,000/=. If the price of each bag is raised by Shs.4,000/=. What will be the new cost of 8 bags of G.nuts?

19. A man divided his 360 hectare farm land into plots of 60m^2 . What number of plots did he make from his land?

20. (i) A dice is tossed once, find the probability that a prime number appears on top.

(ii) Simplify: $8m - 5n - 3m - 4n$

SECTION B: 60 MARKS

21. Kate is 20 years younger than Alice. In 15 years time, Alice will be twice as old as Kate.

(a) How old is Alice?

(2 marks)

(b) How old was Kate two years ago?

22. The marked price of a radio is Shs.50,000/=. Kikomeko paid Shs.5,000/= less than a discount for buying cash.

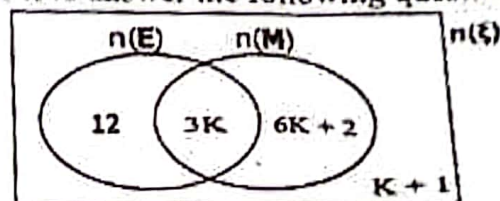
(a) What amount of money did he pay for the radio?

(5 marks)

(b) Calculate the percentage cash price of the radio.

(2 marks)

23. The Venn diagram below represents pupils who like English $n(E)$ and Maths $n(M)$. Study it carefully and use it to answer the following questions.



(a) Given that 17 pupils dislike English, find the value of K .

(2 marks)

(b) What number of pupils like one subject?

24. The exterior angle of a regular polygon is 120° less than the interior angle.

(a) Name the polygon.

(b) Calculate the interior angle sum of the polygon.

5. The table below represents the number of eggs sold from Peter's farm in 5 days.

DAY	Mon	Tue	Wed	Thur	Fri
EGGS SOLD	30	25	10	15	20

(a) How many eggs were sold altogether?

(1 mark)

(b) Draw a pie chart of radius 2.5cm to represent the above information.

(5 marks)

6. $\frac{1}{4}$ of pupils in a class passed Math, $\frac{1}{2}$ of the remainder passed English and the rest passed History. If those who passed History were 300 pupils in that class;
How many pupils passed Math?

(2 marks)

7. What was the total number of pupils in class?

(1 mark)

8. The average of 6, y , 9, $(y + 4)$, 11, 5, $(y + 1)$ and 9 is 15.
Work out the value of y .

(3 marks)

9. Find the median of the numbers.

(1 mark)

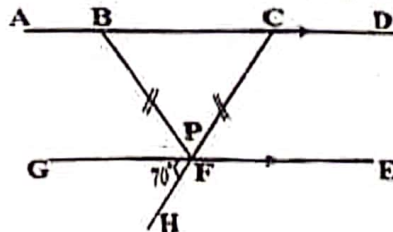
10. What is the modality frequency of the numbers?

(1 mark)

28. (a) Using a ruler, a pencil and a pair of compasses only, construct a parallelogram $BCDE$ where side $BC = 7\text{cm}$, side $CD = 5\text{cm}$ and angle $EBC = 30^\circ$. (2 marks)
- (b) Drop a perpendicular line from E to meet line BC at X . (1 mark)

(c) Calculate the area of the figure. (2 marks)

29. In the figure given below, AD is parallel to GE . Study it carefully and use it to answer the following questions.



Find the size of:

(i) Angle P .

(3 marks)

(ii) Angle ABF .

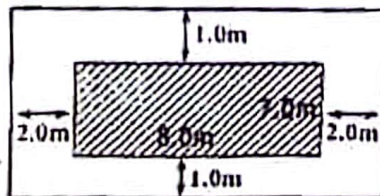
(2 marks)

30. Demeriyo gifted cows to his three children; Nancy, Keno and Bruno in the ratio of 3:7:5 respectively. If Keno was given 64 more cows than Nancy;
- (a) Find the number of animals each child received. (3 marks)

(b) How many animals did Demeriyo share amongst his children?

(2 marks)

31. The figure below shows a carpet measuring 8m by 7m placed on a sitting room floor.



(a) Work out the area of the carpet.

(2 marks)

(b) Calculate the area of the floor not covered by the carpet.

(2 marks)

(c) If the cost of a carpet is Shs.48,000/= per 8 square metres, find the total cost of the carpet.

(2 marks)

32. Mudde left his home at 7:00a.m. driving at a steady speed of 60Km/hr to Kome town for 2 hours to visit his children. He took 30 minutes talking to the children and then continued to Dodo Farm where he works, 60Km from Kome town for $1\frac{1}{2}$ hours. He worked for 60 minutes and then drove back home at a steady speed of 60Km/hr.

(a) How far is Kome town from his home?

(2 marks)

(b) Calculate his average speed for the whole journey.

(3 marks)