KAMPALA PRIMARY SCHOOLS'
SKYLINE EXAMINATIONS™

Pre-MOCK – 2025

3

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' 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.

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

Turn O

SECTION A: 40 MARKS

Questions 1 to 20 carry <u>two</u> marks each.

1. Find the sum of 188 and 282

2. Write in words: 101202

3. Write the properties of numbers given by the statements given below:

   (i) $X \times (Y \times Z) = (X \times Y) \times Z$

   (ii) $(a \times b) + (a \times c)$

4. A tray of 30 eggs were bought at Sh.5,400/= and sold at Shs.280/= each. How much was the gain?

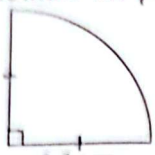
5. The area of a kite ABCD is $144cm^2$ and one of its diagonals is 24cm. What is the length of the second diagonal?

6. A rectangular container has a volume of $9000cm^3$ and a top surface area of $600cm^2$. What is the height of the container?

7. Work out the interior angle of a regular octagon.

8. On the map, 5cm represents 500Km. How many centimetres will represent 5000Km?

9. Calculate the perimeter of the given figure below.



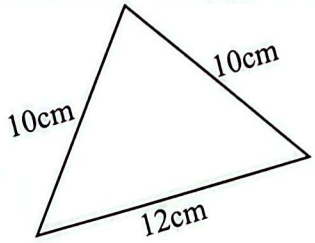
10. On the average, there are 12 words in a line and 21 lines on a page. How many pages would be required for a booklet which contains 5796 words?

11. A watch costs Shs.10,000/= but the shopkeeper gives me a discount of 12½%. How much do I pay?	12. Musa has twice as much money as Zerida and thrice as much as Afere. If the three people had Shs.11,000/=. Find the amount of Afere.

13. Mumbejja bought 30 eggs for Shs.5,000/=. On her way back home 12 eggs got broken due to the accident she had. She sold the rest of the eggs at Shs.350/= each. Work out her percentage gain.

14. Gout Gout runs 200metres in 10seconds. What is his speed in kilometres per hour?	15. If today is Thursday, what day of the week was it 643 days from now?

16. Calculate the <u>area</u> of the triangle below.



17. The bearing of A from B is 240^0. Find the direction of B from A. (Use diagram)

18. Mrs. Makubuya left her home at 7:30a.m. and then came back at 1415hours of the same day. For how long was she out of her home?	19. 30 electric poles are fixed in equal spaces of 20 metres apart from each other in a straight line. Find the distance from the sixth pole to the last pole.

20. The average weight of 3 pupils of P.6 is 22Kg and the mean weight of the next 7 pupils is 12Kg. What is the average weight of all the children in the class?

SECTION B: 60 MARKS

21. A milk container whose capacity is 19200 litres was ¾ full of milk. ¾ of the milk in the container was sold using a 5 litre jerry can at Shs.10,000/= each.

(a) How many litres of milk were unsold? (3 marks)

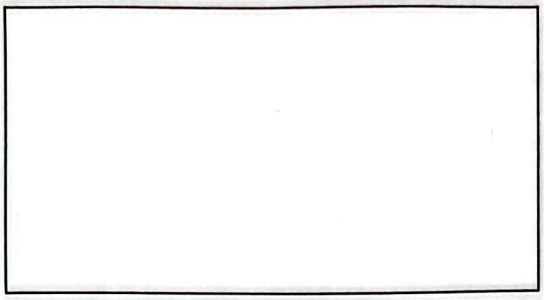
(b) Workout the amount of money obtained from the sale of the milk. (2 marks)

22. (a) A rectangle has a side of 12cm and a diagonal of 20cm. Workout the perimeter of the rectangle. (3 marks)

(b) A wheel of a vehicle makes 100 revolutions when it covers a distance of 242 metres. How wide is the wheel? (3 marks)

23. In a class of 45 pupils, all like English (E), 25 children like Mathematics n(M), 19 children like Science n(S). Some X children like all the three subjects and 11 like only English.

(a) Represent the above information on the Venn diagram below. (3 marks)



(b) Find the number of children who like all the three given subjects. (3 marks)

(c) What number of children dislike Mathematics? (1 mark)

24. A school bursar withdrew bundles of fifty thousand shilling notes in order from HA75402 to HA75601.

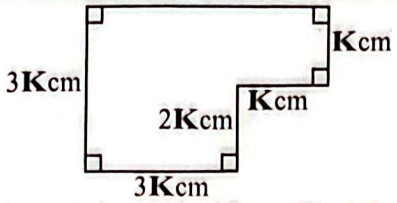
(a) How many notes did the bursar withdraw? (2 marks)

(b) How much money did the bursar withdraw? (3 marks)

25. (a) Give the place value of 3 in 1342_{five}. (1 mark)

(b) If $202_x = 114_{five}$, find the value of **X**. (2 marks)

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



(a) The perimeter of the given polygon is 42cm. Find the value of **K**. (3 marks)

(b) Calculate the **area** of the whole figure. (2 marks)

27. Study the frequency table below and use it to answer the questions that follow.

Mark	Tallies	Frequency
70	///	3
50	//	2
60	////	____
85	____	4
65	____	6

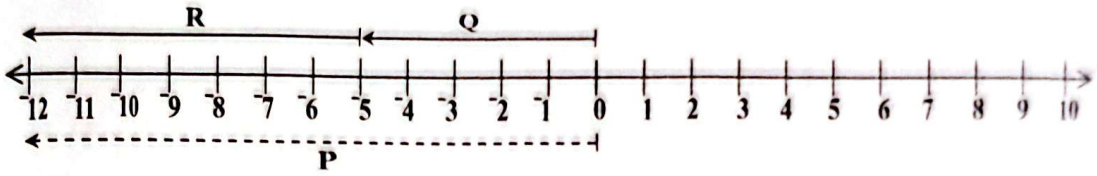
(a) Complete the frequency table. (3 marks)

(b) Work out the average mark of the class. (2 marks)

28. (a) Calculate the sum of money which will amount to Shs.120,000/= after 5 years at a rate of 4% per annum. (3 marks)

(b) How much is the interest? (2 marks)

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



(a) Write the values of: (1 mark each)

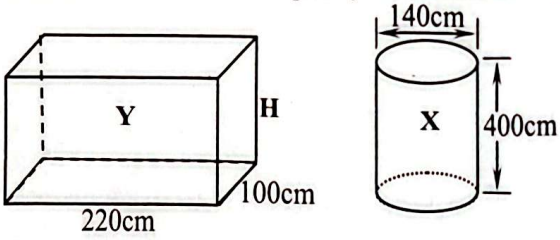
P _____

Q _____

R _____

(b) Write down the mathematical statement shown on the number line. (1 mark)

30. Containers **X** and **Y** have the same capacity when full of water.



(a) Water in container X was poured into container Y. To what height did the water rise in container Y? (2 marks)

(b) The interior angle of a regular polygon is eight times the centre angle. Calculate the sum of its interior angles. (2 marks)

31. Zziwa bought **n** sweets at Shs.500/= each and **(n – 4)** buns at Shs.1,000/= each. He spent Shs.242,000/= altogether.

(a) Find the value of **n**. (3 marks)

(b) How many sweets and buns did he buy? (1 mark each)

32. Kole left town A and drove 120Km due East to town B. He then changed direction and drove due South at a steady speed of 80Km/hr for 2 hours to town C.

(a) Draw a sketch diagram to show the position of the three towns. (1 mark)

(b) Using a scale of 1cm:20Km, draw an accurate diagram showing the position of the 3 towns. (3 marks)

(c) Find the shortest distance between town A and town C. (1 mark)