KAMPALA PRIMARY SCHOOLS'
SKYLINE EXAMINATIONS™
Pre-MOCK – 2023
3
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Candidate's Name:..

Candidate's Signature:...

School Name:...

District Name:...

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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.

Turn Over

1. Workout: 48 ÷ 3	2. Find the value of **n** if 4 + **n** = 1 (mod 6).

3. Use the Venn diagram below to list elements of **B** complement.
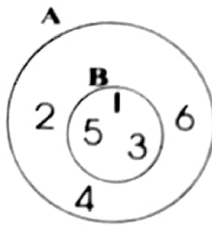
4. Find the square root of **11⅑**.	5. Dunia was given 6.25Kg of Rice by his father and Namazzi received 4.9Kg from her sister Betty. How many more kilograms of rice were given to Dunia?

6. Kabazira receives a salary of US$80,000 per month and then she spends 10% of it on house rent and the rest on other items. Work out the amount of money she spends on other items.
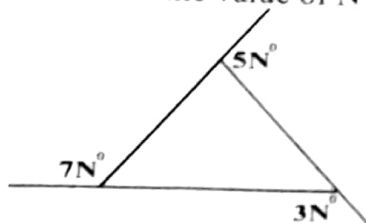
7. Find the LCM of 12 and 18.	8. Express 48048 in words.

9. Mugenyi counted the vehicles which entered the school compound and tallied them as shown below. How many vehicles entered the school on that day?

HHH HHH HHH HHH HHH HHH ///

10. Work out the value of **N** in degrees in the figure given below.

11. The cost of 2Kg of sugar is Shs.9.200/=. What is the cost of 6Kg?	12. Kitwe moved at a speed of 50kph to cover a distance of 180Km from town **P** to town **Q**. How long did he take on the way?

13. The clock-face below shows time in the afternoon. Give this time in 24hour clock system.

14. Solve: $4(2K - 3) = 10K$	15. Round off 699.98 to the nearest tenth.

16. Teachers' staff room is 9metres North of the Headteacher's office. The school canteen is 12metres East of the Headteacher's office. Find the distance of the teachers' staffroom from the school canteen.

17. A regular polygon has an interior angle of 140°. Name the polygon.

18. A wheel makes 14 revolutions to cover a distance of 22metres. How wide is the wheel? $(\pi = 3\frac{1}{7})$

19. Three people were given Shs.810,000 to share in the ratio 2:3:4. How much more was the largest share than the smallest?

20. (a) List down 9 consecutive integers whose median is ⁻3.

(b) Work out the range of the above numbers.

SECTION B: 60 MARKS

21. (a) Express 0.41666... as a fraction in its simplest form. (2 marks)

(b) Simplify: $\dfrac{0.9 \times 0.72}{0.3 \times 0.24}$ (2 marks)

22. Musa started a journey from Jinja at 2200hrs at night and reached Kampala at 10:00a.m. in the morning.
(a) How many hours did he travel from Jinja to Kampala? (2 marks)

(b) Convert 12:35a.m to 24hour clock system. (2 marks)

23. The Venn diagram below represents the number of guests who attended Jojo's wedding party. The guests were served with Fish or Meat or both types of food. Those guests who disliked Fish are the same as those guests who did not want meat. Use the diagram to answer the questions that follow.

$n(F)$ $n(M)$ $n(\xi)$

$2K + 4$ ($2K$) $4K - 2$

$3K + 3$
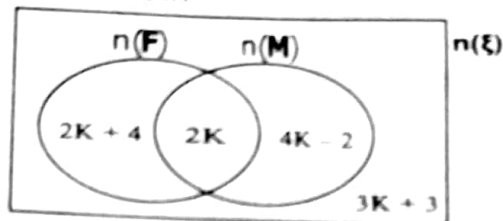
(a) What is the value of **K**? (3 marks)

(b) How many guests ate meat only or Fish only or both types of food? (3 marks)

24. Musa has twice as many goats as Ali and thrice as many goats as Toto. The three together have 16,500 goats.
(a) How many goats has each person? (4 marks)

(b) How many less goats has Toto than Musa? (2 marks)

25. (a) Using a ruler, a pencil and a pair of compasses only, construct parallelogram **ABCD** where side **AB** = 7cm, side **BC** = 5cm and angle **BCD** = 60⁰. (4 marks)

(b) Measure the length of diagonal **BD**. (1 mark)

26. The average weight of 6 girls is 50Kg. When two other girls join the group, the average weight changes to 45Kg. The seventh girl is 10Kg lighter than the eighth girl. What is the weight of the seventh and the eighth girls? (4 marks)

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

(a) Complete the table correctly. (2 marks)

Mark	Tally	Frequency
40	////	_____
80	///	3
60	ЖЖ //	_____
50	//	2
70	////	_____

(b) What is the modality mark? (1 mark) | (c) Calculate the **mean** mark. (2 marks)

28. Mrs. Delu spends her weekly allowance as follows:
    Oil Shs.3,000; Sugar Shs.3,500; Rice Shs.5,000; Posho Shs.1,500; Saving Shs.2,000
    Draw a pie chart for this information using a diameter of 6cm. (5 marks)

29. Mary, Julie and Cissy shared some money in the ratio of 7:5:3 respectively. If Cissy
    received Shs.48,000 less than Mary.
(a) What amount of money was divided by the three people? (3 marks)
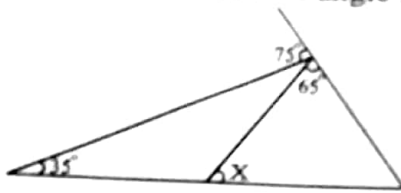
(b) How much money was given to Julie? (2 marks)

30. (a) The interior angle of a regular polygon is 120^0 more than the exterior angle.
    What is the interior angle sum of the polygon? (3 marks)

(b) Calculate the size of angle **X** in the diagram given below. (2 marks)

31. Wamala sold his two plots of land. Plot A was sold for Shs.2,600,000/= making a gain of 30% and Plot **B** was sold for Shs.3,600,000/= making a 20% profit.

(a) How much money had Wamala paid for the two plots of land? (4 marks)

(b) Work out the total gain Wamala made from the two plots of land. (2 marks)

32. The time table below shows a 360Km journey of a taxi from Kampala to Karuma.

TOWN	Arrival	Departure
Kampala		6:00a.m.
Katugo	6:30a.m.	6:45a.m.
Migyera	7:30a.m.	7:40a.m.
Kafu	8:45a.m.	9:00a.m.
Kigumba	9:30a.m.	9:45a.m.
Karuma	10:30a.m.	

(a) How long does the taxi take to travel from Kampala to Karuma? (2 marks)

(b) Work out the average speed of the taxi. (2 marks)

(c) For how long did the taxi stop on the way? (2 marks)