

# KAMPALA PRIMARY SCHOOLS' SKYLINE ASSESSMENT

END OF 2<sup>ND</sup> (SECOND) TERM 2023

PRIMARY SIX (P.6)

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

SCHOOL: \_\_\_\_\_

DO NOT OPEN THIS BOOK LET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

1. The paper is made of section 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 Section A and B must be written in the spaces provided.
5. All answers must be written in 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.

FOR OFFICIAL USE ONLY.

SECTION	EXRS. MARKS	T/L MARKS	OFFICE
A			
B			
TOTAL			

### SECTION A

1. Add: $431 + 69$	2. Simplify: $-8 - -4$
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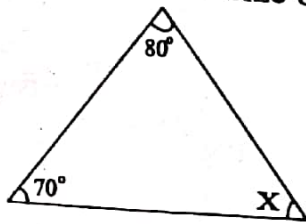
3. What is the size of the smaller angle between North East and South East?

4. Write 496 in Roman numerals.	5. Work out: $\frac{5}{6} - \frac{2}{3}$
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6. Given that  $X = 4.3$ ,  $y = 7.2$  and  $Z = 2.2$ , find the value of  $X + y - Z$

7. Find the sum of the missing numbers in the sequence below:  1, 4, 7, 10, _____, _____	8. Find the mean of the numbers below: 2, 10, 3 and 5
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9. Calculate the size of angle X in the figure given below.



10. Let Set  $P = \{1, 2, 3, 4, 5\}$  and Set  $Q = \{1, 5, 7, 9\}$ . Find  $n(P - Q)$

11. How many 200 shilling pancakes can be bought with 10,400 shillings?	12. Write down the median of the numbers: 2, 1, 9, 5, 1, 11 and 6
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13. 60% of the pupils in a class are girls. If there are 24 girls in the class. How many pupils are in that class?

14. Solve: $3n + 4 = 5n$	15. Subtract: <table> <tr> <th>Hours</th> <th>Min.</th> </tr> <tr> <td>10</td> <td>18</td> </tr> <tr> <td>- 3</td> <td>48</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> </table>	Hours	Min.	10	18	- 3	48	<hr/>	
Hours	Min.								
10	18								
- 3	48								
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16. Namukasa had one fifty thousand shilling note. She went to a Bank cashier to request for change. How many one thousand shilling notes were given to Namukasa?

17. A string is 10 metres long. Find the number of 25cm pieces which can be cut from it.

18. Express the ratio 24:36 in the simplest form.



19. A vehicle travelling at 120Km/hr takes 4 hours to cover a certain journey. Find the length of the journey.

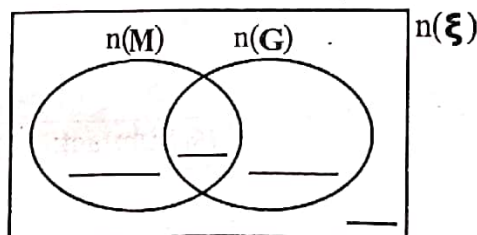
20. A box contains 8 black pens, 4 red pens and 6 blue pens. What is probability of picking a pen which is blue from this box?

### SECTION B

21. In a club of 35 pupils,  $X$  like only Games  $n(G)$ , 22 like Music  $n(M)$ , 12 like both activities and 4 pupils do not like either.

(a) Show the above information on the Venn diagram below.

(2 marks =  $\frac{1}{2}$  mark each)



(b) Find the value of  $X$ .

(2 marks)

(c) How many pupils like two types of activities?

(2 marks)



(d) If a child is chosen at random to be the captain of the club, what is the probability of choosing a child who likes only music? (2 marks)

22. (a) Dunia bought 9.37 litres of petrol for his car and 68.3 litres of diesel for his truck. Find how much fuel he bought. (2 marks)

(b) What number of  $\frac{3}{4}$  litres of petrol are contained in  $4\frac{1}{2}$  litres? (2 marks)

23. (a) A youth counselling session begun at 8:40a.m. and ended at 11:15a.m. Find the length of time the session lasted. (2 marks)

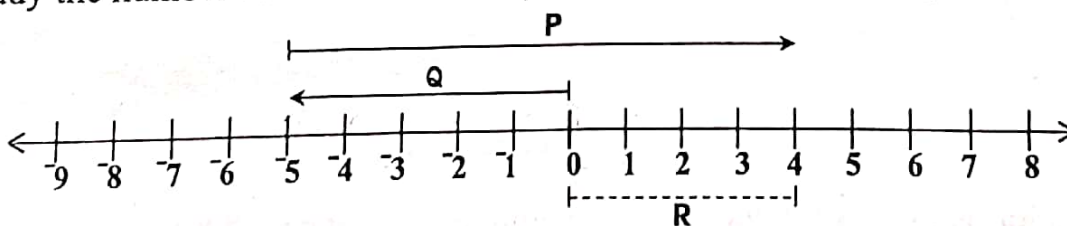
(b) The bus left Kampala for Mbarara while moving at a speed of 80Km/hr. If the bus took  $2\frac{1}{2}$  hours on the way. What is the distance between Kampala and Mbarara? (3 marks)

24. (a) In a class of 30 pupils, 12 pupils are boys. What is the ratio of girls to boys in that class? (2 marks)

(b) Increase 200 birds by 20%. (2 marks)

25. (a) Simplify:  $\frac{0.36 \times 0.4}{0.018}$  (3 marks) (b) Work out:  $0.6 + 0.5 \times 0.3 - 0.31$  (2 marks)

26. 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. (2 marks)

27. Find the four consecutive natural numbers whose sum is 90.

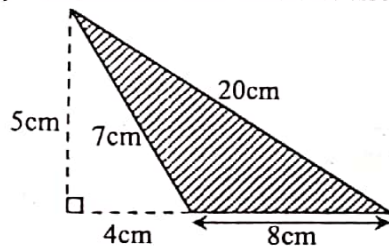
(4 marks)

28. (a) A square has a perimeter of 24cm. What is the **area** of the square?

(2 marks)

(b) Calculate the area of the shaded figure below.

(3 marks)



29. (a) The cost of 2 loaves of bread is Shs.4,000/=. What is the cost of 6 similar loaves of bread?

(2 marks)

(b) 4 people can do a piece of work in 10 days. How many days will 10 people take to do the same work while working at the same rate?

(3 marks)

30. Work out the following given questions below.

(2 marks each)

(a) 
$$\begin{array}{r} \text{Kg} \quad \text{gms} \\ 4 \quad 900 \\ + 3 \quad 800 \\ \hline \end{array}$$

(b) 
$$\begin{array}{r} \text{Weeks} \quad \text{Days} \\ 4 \quad 6 \\ \times \quad 3 \\ \hline \end{array}$$

31. Given below is a Tally Mark table. Study it and answer the following questions.

(a) Complete the table below correctly.

(5 marks)

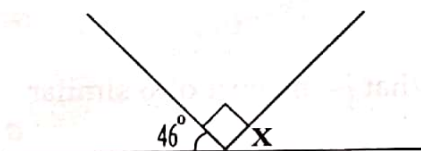
Marks	Tallies	No. of Pupils
50	<u>    </u>	6
80	<u>///</u>	<u>3</u>
60	<u>  </u>	2
20	<u>###</u>	<u>5</u>
70	<u>///</u>	3

(b) How many pupils sat for the examination?

(2 marks)

32. (a) What is the size of angle X?

(2 marks)



(b) Find the value of angle K.

(2 marks)

