KAMPALA CITY EDUCATION SERVICES

PRIMARY SEVEN EXAMINATION

2026

MATHEMATIC

Time Allowed: 2 hours 30 minutes

Total mark Scored	

Random No.						Personal No.		

Pupil's Name:.....

Pupil's Signature:.....

District ID No.

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **16 printed** Pages.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. **All** answers must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
5. No **calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: **"FOR EXAMINER'S USE ONLY"** and boxes inside the question paper.

FOR EXAMINER'S USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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SECTION A: 40 MARKS

Answer **all** *questions in this* section

Questions **1** *to* **20** *carry* **two** *marks each*

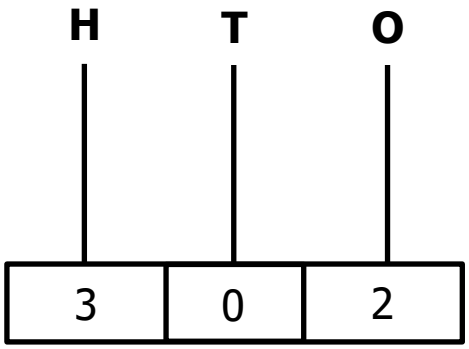
1. Work out:

$$\begin{array}{r} 4\ 3 \\ +\ 1\ 0 \\ \hline \\ \hline \end{array}$$

2. Simplify: $y^3 \div y^2$

3. Solve for r: $r + 8 = {}^{-}3r$

4. Draw beads to complete the abacus below.



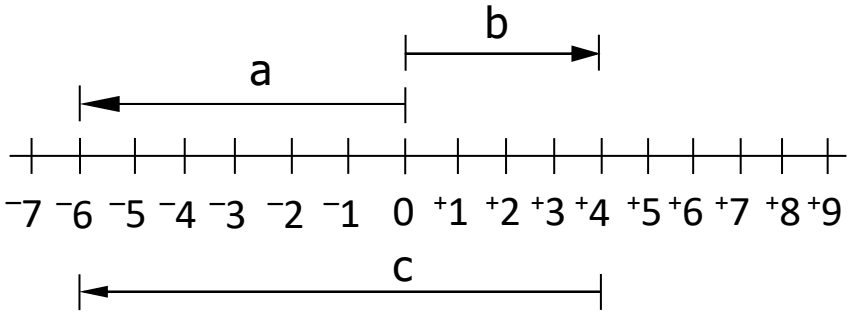
5. Okot was born in MCMLXII. Express the year he was born in Hindu-Arabic numerals.

6. In a class, there are 6 boys and 4 girls. If a pupil is picked at random to be the class captain, find the probability that the pupil picked is a boy.

7. Simplify: $6^3 - 4^0 + 1^2$

8. A businessman bought a jacket at sh 28,000. After selling it, he made a loss of sh 3,500. Find the selling price of the jacket.

9. Study the number line below and use it to answer the questions that follow.



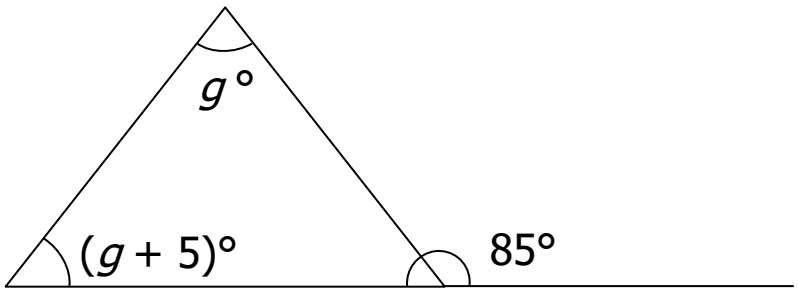
Write the mathematical sentence shown on the number line above.

10. During marking, learners scored the following grades in mathematics; 5, 2, and 6
Use the information given above to form the largest 3-digit number.

11. An academic term which took 93 days ended on Friday. Determine the day it started.

12. Ntambi borrowed sh 200,000 from Del Bank at a simple interest of sh 64,000 for 4 years. Find the amount of money Ntambi paid after 3 years.

13. In the diagram below, find the value of g .



14. The table below represents the grades scored by the pupils of Disney Junior School in mathematics test. Study and use it to find the value of r if the mean grade of the pupils is 3.

Frequency	///	//	r	///	////	////	////	///
Grades of the pupils	3	2	4	1	4	2	3	2

15. Find the missing modulus represented by letter t and y.

(i) 2(mod 3) = { 5, 8, t, 14, 17, 20, …}

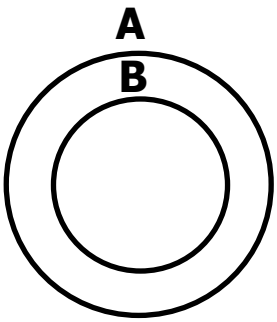
(ii) 1(mod 5) = {6, 11, 16, 21, y, 31, …}

16. A bank in Kampala exchanges dollars and Tanzanian shillings at the rates shown below.

Currency	**Buying rate**	**Selling rate**
1 US Dollar ($)	Ug sh 3,700	Ug sh 3,850
1 Tanzania shilling	Ug sh 1.6	Ug sh 1.8

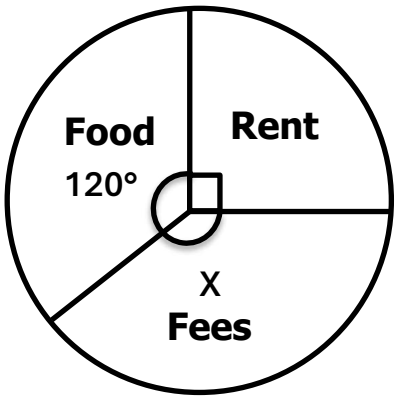
Calculate the amount in Uganda shillings a businessman with 180 dollars will receive from the bank.

17. In the Venn diagram below, shade **A** ∩ **B**.



18. Express 34_{five} into binary base.

19. The pie-chart below represents how Okello spends his monthly salary. Study and use it to find the size of the angle marked **X**.



20. Bruno swims round a 9.8 metre circular rink and finishes 2.3 metres behind his starting point in 3 seconds. Express his average speed in kilometres per hour.

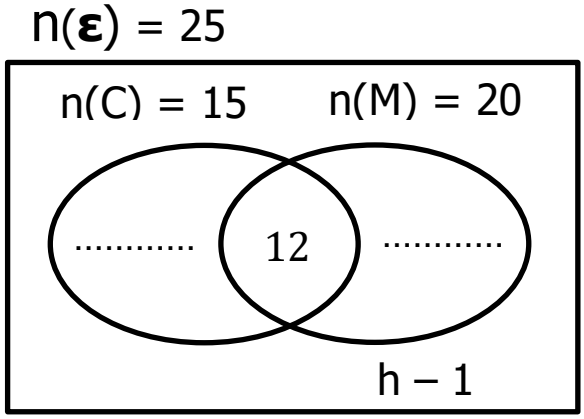
SECTION B: 60 MARKS

Answer **all** *questions in this section*

Marks for each section are indicated in brackets

21. At a party attended by 25 guests, 12 guests were served both Mirinda (M) and Coca-Cola (C), (2h – 3) guests were served Coca-Cola only, 20 guests were served Mirinda while (h – 1) guests were not served any of the two drinks.

(a) Use the above information to complete the Venn diagram below. (*02 marks*)



(b) Work out the number of guests who were served with only one type of drink. (*03 marks*)

22. John and Bosco left town **P** for town **Q** at the same time. Town **Q** is 180 km from town **P**. John drove at 80 km/h and had a refuelling break of half an hour during the trip, while Bosco maintained a constant speed of 60 km/h throughout the trip.

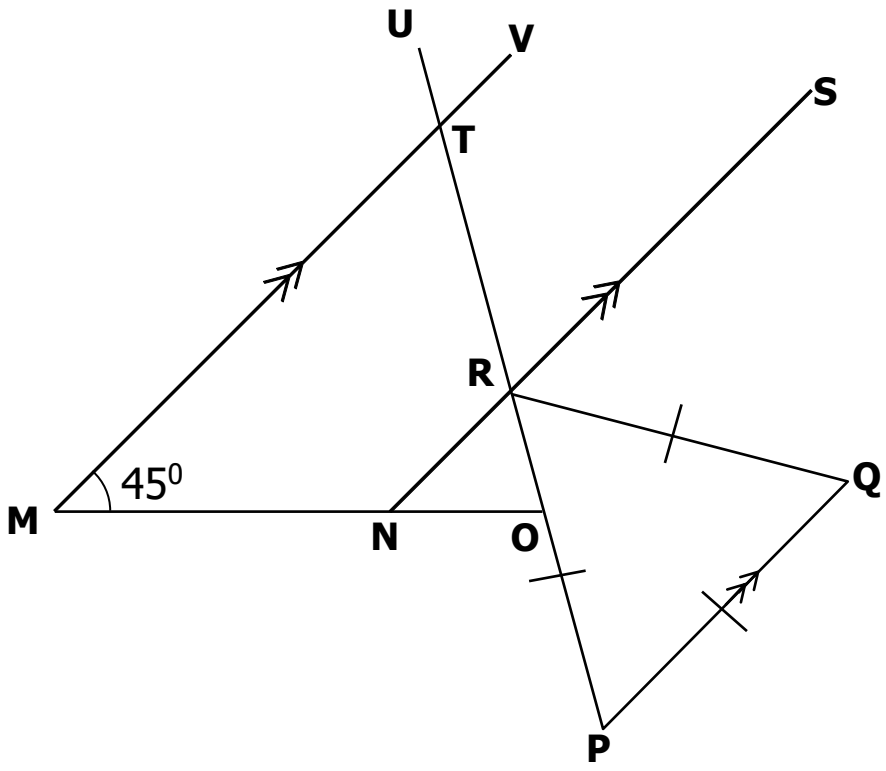
(a) Calculate how far Bosco was from town **Q** when John arrived at town **Q**. (*03 marks*)

(b) Find the speed Bosco should have maintained in order to reach town **Q** 45 minutes ahead of John. (*03 marks*)

23. (a) Using a ruler, a pencil and a pair of compasses only, construct a kite **KCEB** such that **KE** = 5 cm, **KB** = **BE** = 3.5 cm and **CB** = 9 cm. (*04 marks*)

(b) Measure length **KC**. (*01 mark*)

24. In the figure below, **MV**, **NS** and **PQ** are parallel lines. Angle **VMN** = 45^0 and **PQR** is an equilateral triangle. Study it and answer questions that follow.



(a) Find the size of angle **NOR**. (*03 marks*)

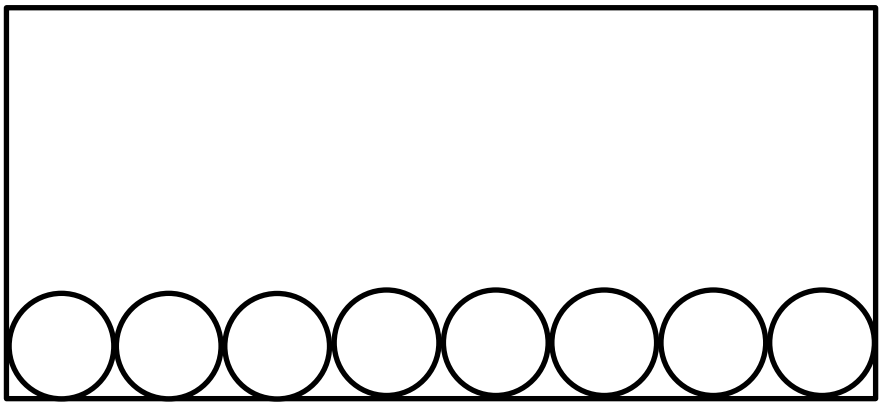
(b) Calculate the size of angle **MTU**. (*02 marks*)

25. Three pupils, Ismail, Mary, and Paul, were given some pens to share. Mary got a third of Ismail's share, but Ismail and Paul shared 50 pens in the ratio of 3:m respectively. If Paul got 5 pens less than a half of the total number of pens him and Ismail shared, find Mary's share.
(*05 marks*)

26. If $y = 4x + {}^{-}1$, complete the table below. (*05 marks*)

X	$\frac{1}{4}$	.....	.....	.....	$^{-}2$
Y	.....	$^{-}9$	$\frac{1}{3}$	$^{-}5$	.....

27. Ratib cut out circular coasters from rectangular cardboard sheet along its length and cut unknown number of circular coasters along the width as shown in the diagram below. Study and use it to answer the question that follow.



112 cm

If the area of the uncut part of the rectangular cardboard sheet in the above diagram is 3,360 cm^2, determine the number of coasters that were cut along the width. (*06 marks*)

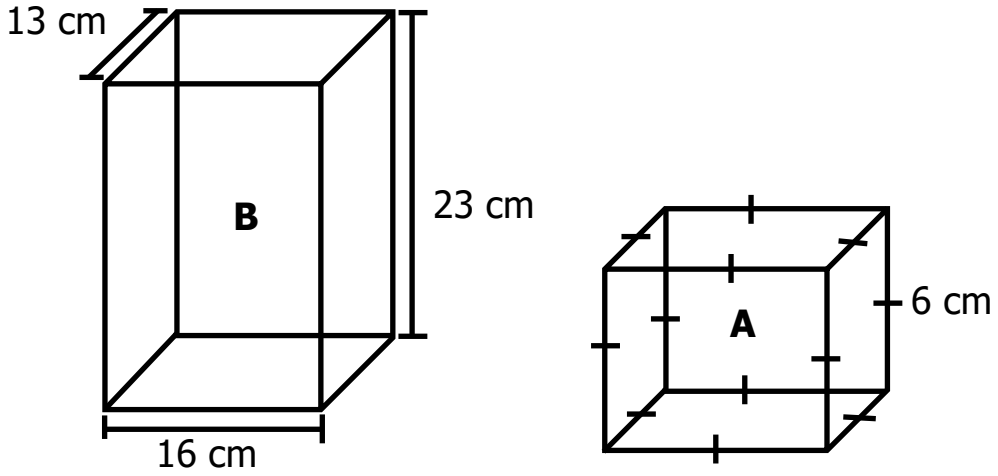
28. A school bursar bought 5 books and 2 geometry sets. Each book costs sh (x – 800) less than sh 3,700 and each geometry set costs sh (x – 400) less than sh 2,800. If he paid sh 17,700 in total, find the amount of money he spent on books. (*04 marks*)

29. Abdallah went to the supermarket and bought the following items;

5 kg of beans at sh 3,400 per kg
750g of groundnuts at sh 8,000 per 500g
4 packets of salt at sh 4,800
$3\frac{1}{2}$ litres of milk at sh 2,700 per litre
12 Oranges at sh 1,500 for every 3 oranges

If Abdallah was given a discount of 20% on his total expenditure, find the amount he paid for the items. (*05 marks*)

30. In the diagrams below, **A** is a cube with side 6 cm while **B** is a box measuring 16 cm long, 13 cm wide and 23 cm high. If cubes of size **A** were packed in the box **B**, calculate the volume of the space left in the box **B** after packing all cubes of size **A**. (*05 marks*)



31. The average mass of 10 sacks of cement is 45 kg. When 2 sacks were removed, the average mass became 47 kg. If the 5^{th} sack is 6 kg heavier than the 6^{th} sack, determine the mass of the 5th sack.

(*04 marks*)

32. The table below shows the journey covered by a taxi from Kampala to Masaka. Study it and answer the questions that follow.

PLACE	DISTANCE	ARRIVAL	DEPARTURE	FARE
Kampala			11:30a.m.	
Mpigi	40km	12:10p.m.	12:15p.m.	sh 6,000
Kayabwe	43km	1:05p.m.	1:20p.m.	sh 7,500
Lukaya	25km	1:45p.m.	1:55p.m.	sh 3,500
Masaka	26km	2:25p.m.		sh 4,000

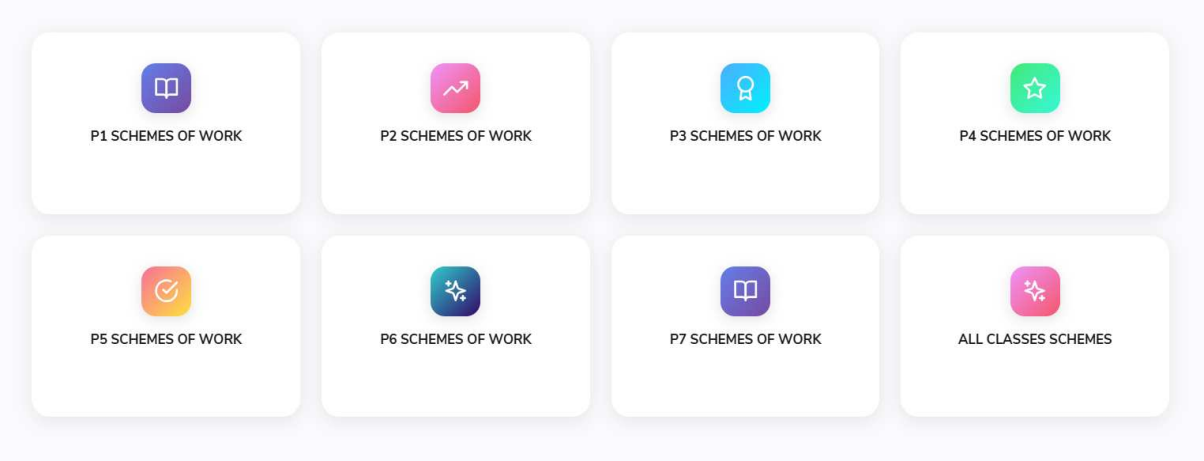
(a) Find the distance from Kampala to Kayabwe. (*02 marks*)

(b) Faridah is a resident of Mpigi. She boarded the taxi and travelled to her grandparents' home in Lukaya. If she gave the taxi conductor a note of fifty thousand shillings, find the change she was given. (*03 marks*)

THE END



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