SKYVIEW JUNIOR SCHOOL-WAKISO

PRE MOCK EXAMINATIONS 2023

MATHEMATICS (1 of 5)

Time allowed: **2** hours **30** minutes

Index | | | | | | | | | |

Name: .....

Signature: .....

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read these instructions carefully;

1. The paper has two sections **A** and **B**
2. Section **A** has **20** questions (**40 marks**)
3. Section **B** has **12** questions (**60 marks**)
4. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
5. All answers must be written with **blue** or **black** **ball-point pen** or in **ink**. Only diagrams and graph work must be done in pencil.
6. No calculators are allowed in examination room.
7. Unnecessary alteration of work and any **handwriting** that cannot easily be read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated;

"FOR EXAMINER'S USE ONLY"

FOR EXAMINERS' USE		
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		

PTO

SECTION A (40 mks)

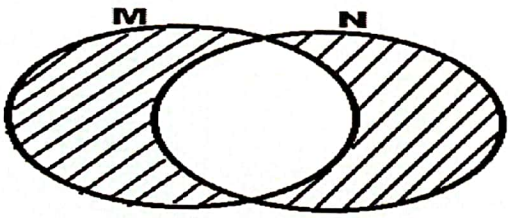
Each question carries 02 marks

1. Multiply: 2 x 3

2. Write 108,096 in words.

3. Simplify: $9^2 + 300^0$

4. Describe the shaded region on the Venn diagram below



5. Find the product of the 3rd number and the last number in the sequence below.

3, 5, 8, 13, 21, 34, _____, _____

PTO

6. Round off $\frac{3768}{100}$ to the nearest whole number.

7. Find the Highest Common Factor (HCF) of 24 and the tenth even number.

8. Solve $-4 = -2 - x$

9. Find the number which has been expanded below in Roman numerals.

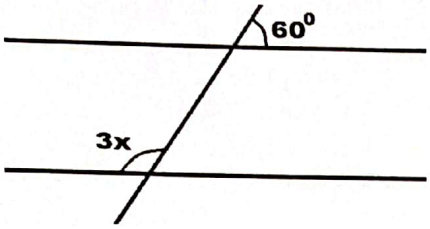
$(3 \times 5^2) + (2 \times 5^1) (5 \times 5^0)$

10. What angle is four times its supplement?

PTO

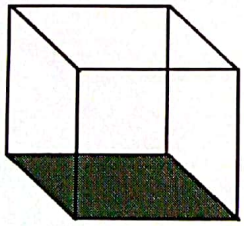
11. Evans ran 100 metres in 9 seconds. Express his speed in km/h.

12. In the figure below, AB is parallel to CD. Find X.



13. The price of a matron's dress was increased by 10%. If the new price is sh. 44, 000/= Find the original price of the dress.

14. The area of the shaded part on a cube below is $100cm^2$. Calculate its volume.



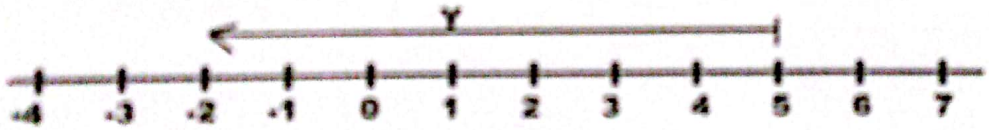
PTO

15. The range of consecutive integers is 6. If the smallest integer is 2. Find the highest integer.

16. Rubega has a bundle of twenty thousand-shilling notes numbered consecutively from AR534201 to AR534300. How much money does he have?

17. Find the mean of 2m, 7, 3, 30 and (3m + 5)

18. Write the integers represented by arrow Y on the number line below.



19. Draw a Venn diagram to show that all boys (B) and girls (G) are pupils.

PTO

20. If m = 3 and k = -2, find the value of mk^2

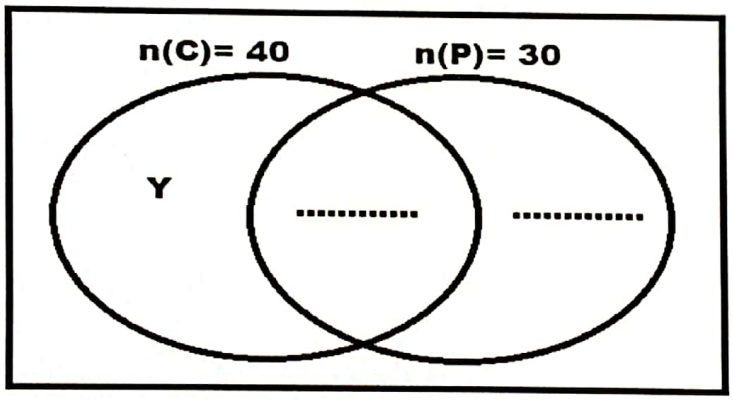
SECTION B (60 mks)

(Marks awarded are indicated in the box)

21. The Venn diagram below shows a class of 50 pupils, 30 pupils like potatoes (P), 40 pupils like cassava (C) and Y pupils like cassava only.

a) Complete the Venn diagram below using the above information. **(2 mks)**

$n(\bar{U}) = 50$



b) If a pupil is picked at random from the class, what is the probability that the pupil like one type of food only? **(4 mks)**

PTO

22. In an interview **5** marks are awarded to every correct answer and **2** marks are deducted for every wrong answer. If a paper contains **20** questions.

a). How many marks will an Interviewee get if he gets **3** wrong answers from the paper.

(2 mks)

b) How many correct answer did an interviewee who got a total of **65** marks get?

(3 mks)

23. Two towns A and B are on Masaka to Kampala high way. Masaka is **120km** away from Kampala and town A is **35** kilometres away from Kampala.

A motorist left town A at **11: 45 am** moving at an average speed of **32** kilometres per hour. He reached town B at **1:45 pm**. How far is town B from Masaka? **(5 mks)**

PTO

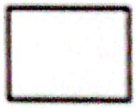
24. Akot went to the market and bought the following items.

5 litres of milk at sh. 1100 per litre.

1250g of salt at sh. 2000 per kilogram.

24 oranges at sh. 3000 for every 6 oranges.

If Akot paid **sh. 17,500** for all the items. Calculate his percentage discount. **(5 mks)**



25. a) Change **0.4166** to a common fraction. **(2 mks)**

b) Write the sum of 0.25 of 2000 and 0.35 of 200 in words **(3 mks)**

PTO

26. The table below shows the number of pupils in primary seven who were absent during the week. Study it carefully and use it to answer questions about it.

DAYS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
NUMBER OF PUPILS	10	5	20	15	10

a) If health workers visited the school for vaccination, which day had many pupils vaccinated.

(1 mk)

b) If a class had a total of 70 pupils, find the average number of pupils who attended that week.

(3 mks)

27. The sum of three consecutive odd numbers is **99**. If the largest number is K. Write the sum of the largest and the smallest number in Roman numeral.

(5 mks)

PTO

28. The table below shows the rates at which different currencies are bought and sold in certain bank. Use it to answer questions that follow.

Currency	Buying price	Selling price
1 US dollar	**Ug sh. 3600**	**Ug sh. 3600**
1 Kenya shilling	**Ug sh. 38**	**Ug sh. 40**
1 British pound	**Ug sh. 4500**	**Ug sh. 4550**

a) Natukunda had **Ksh. 18500**. He bought a smart phone worth **190** Us dollars. How many Kenya shillings did he remain with? **(3 mks)**

b) How many US dollars are equivalent to **£1480?** **(2 mks)**

29. Mary, Julie, and Cissy shared some money in the ratio of **7:5:3** respectively. If Cissy got sh. 48000 less than Mary. How much more money did Mary and Cissy get than Julie.

(5 mks).

PTO

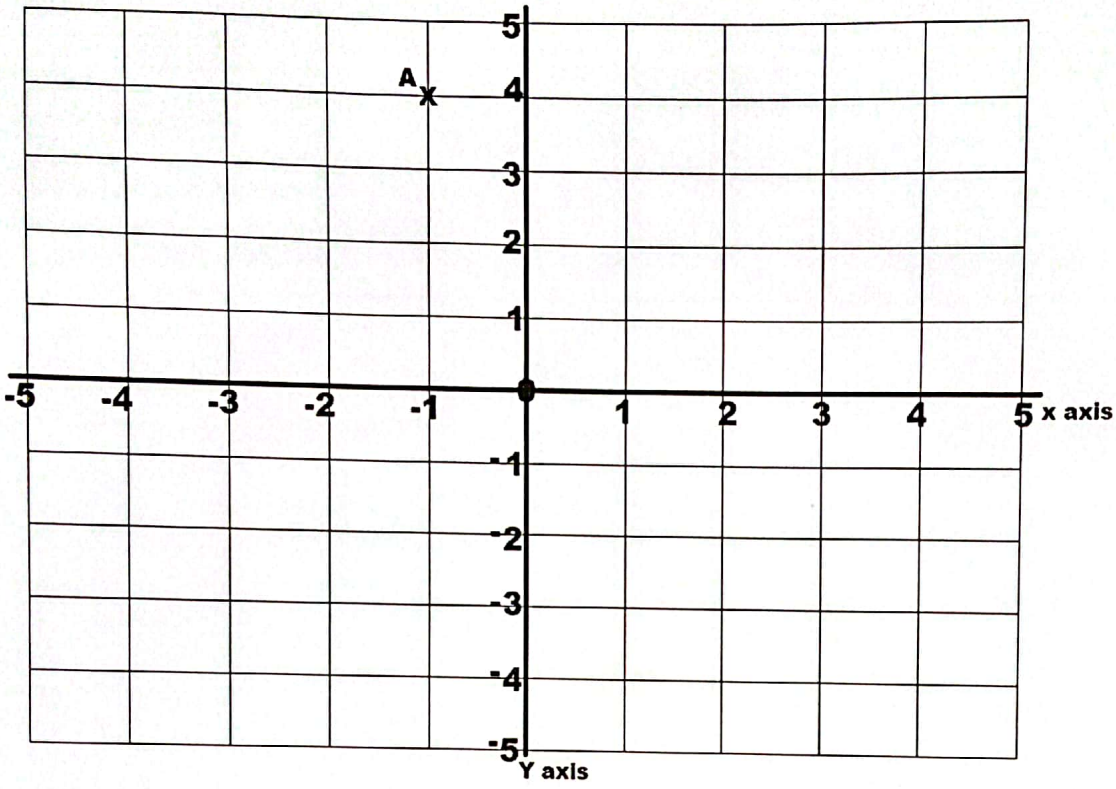
30. Kisoro town is **120km** from Kiryadongo town on a bearing of **145°** and Mubende town is **100km** from Kisoro on a bearing of **250°**. Using a scale of 1cm to represent **20km,** draw an accurate diagram to show the position of the three towns. **(5mks)**

b) Find the shortest distance between Kiryadongo town and Mubende town.

(1 mk)

PTO

31. Study the co-ordinate graph below and use it to answer questions.



a) Write the co-ordinates of point A **(1 mk)**

b) Plot points B(2,2) C(-1,-4) on the graph and join A to B and B to C. **(2 mks)**

c) Locate points D on the graph such that the figure formed is a kite. **(1 mk)**

PTO

32. a) Given that $2000_k = 1010_{five}$, find the value of K. (3 mks)

b) Workout $(145 \times {}^1/_5) - (20 \times {}^1/_5)$ using distributive property. (2 mks)

******I WISH YOU THE BEST******