JIM JUNIOR SCHOOL

NURSERY & PRIMARY

KIBUKU

"To Excel Is Our Aim"

Tel (+256)787643047 or (+256)756072716
Email: schooljimjunior@gmail.com

BEGINNING OF TERM ONE EXAMINATIONS 2023

PRIMARY SIX

MATHEMATICS

DURATION: 2HRS 30 MIN

Name _____

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

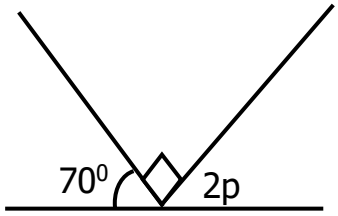
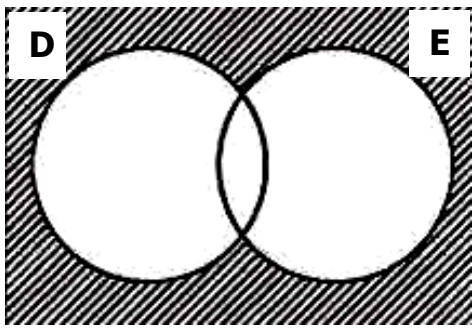
Read the following instructions carefully

For Examiner's use only	
A	
B	
TOTAL	

1. **This paper has two Sections: A and B.**
2. **Section A has 20 answer questions (40 marks)**
3. **Section B has 12 questions (60 marks)**
4. **Answer ALL questions. Answers to both sections must be written in the spaces provided.**
5. **All answers must be written using blue ink. Diagrams should be drawn in pencil.**
6. **Unnecessary alteration of work may lead to loss of marks.**
7. **Any handwriting that cannot be easily read may lead to loss of marks.**

8. **Do not fill anything in the box indicated for examiner's use only.**

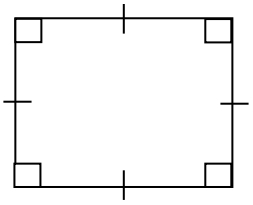
SECTION A:

1. Work out: 4 x **3**	2. Write 24095 in words.
3. Simplify: 7m - 3k - m + 6k	4. Find the next number in the sequence. 4, 6, 8, 9, 10, _____
5. If  represents a dozen of trees, draw pictures to represent 60 trees.	6. A mathematics seminar took $3\frac{1}{4}$ hours. How long did it last in minutes?
7. Find the value of p in degrees. 	8. The cost of 4 books is sh.12000. How many books can one buy with sh.21000?
9. Subtract $\frac{2}{3}$ from $1\frac{1}{4}$	10. Describe the shaded part in the figure below. **Σ** = 

11. Express $304_{\textbf{five}}$ in decimal base.	12. Draw a clock face and show ten minutes to nine.
13. Solve: 3k + 6 = 19	14. Using a sharp pencil, a ruler and a protractor, draw an angle of 120^0.
15. Simplify: $^{+}7 - {}^{-}13$	16. Express 89 in Roman numerals.

17. After selling a dress for sh.70,000, a trader realised a profit of sh.7500. Calculate its buying price.

18. Work out the area of this shape if its perimeter is 36m.



19. Express $\frac{3}{4}$ as a decimal number.

20. Work out: 9 - 15 + 31

SECTION B: (60 MARKS)

21. a) Work out:

$$\begin{array}{r} 369 \\ \times\ 78 \\ \hline \end{array}$$

(2 marks)

b) A member of parliament distributed "two thousand forty-five" text books equally among five schools. How many text books did each school get?

(2 marks)

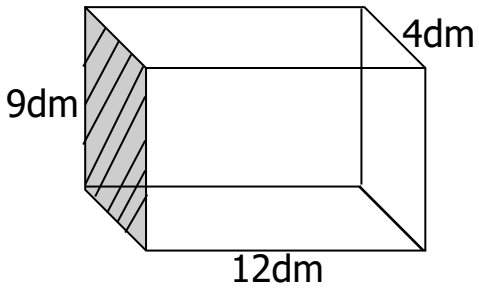
22. Mrs. Butyaaba went to Nakasero market and bought these items;

3kg of meat for sh.15000 per kg
$2\frac{1}{2}$ bars of soap for sh.8000 a bar
60 oranges for sh.2000 for every four.

a) Calculate her total expenditure. (4 marks)

b) If she had sh.100,000, how much was her change? (1 mark)

23. Study the figure below and answer the questions that follow.



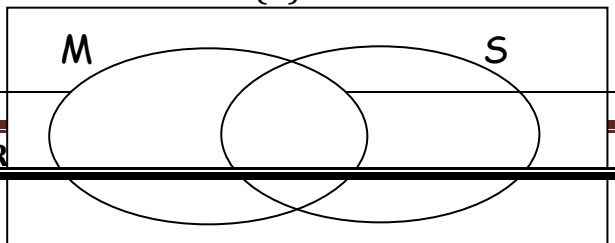
a) Work out its volume (3 marks)

b) Calculate the area of the shaded face. (2 marks)

24. In a P.6 class of 38 pupils, 28 like Maths (M), 12 like Science (S), y like both subjects while 3 like neither of the two subjects.

a) Represent the above information on the Venn diagram below. (2 marks)

$n(\Sigma) = 38$



y

3

b) How many pupils like both subjects? (2 marks)

c) Find the number of pupils who like only Maths. (1 mark)

25. Nabbanja scored the following marks in her weekend assessment packages marked out of 25.

20, 22, 18, 20, 20

a) What was her modal mark? (1 mark)

b) Work out her;

i. median mark (2 marks)

ii. arithmetic mean mark (3 marks)

26. A taxi driver left Kampala at 2:30p.m. and reached Mbale city at 5:30p.m. travelling at a speed of 90km/h.

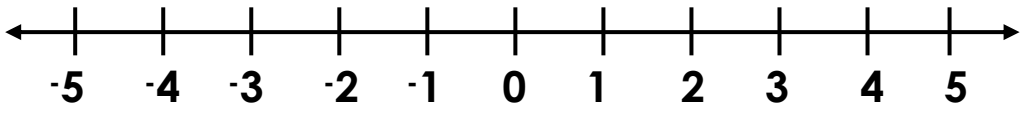
a) How much time did he take for the entire journey? (2 marks)

b) How far is Mbale from Kampala? (2 marks)

27. a) Simplify: $\frac{3}{4} - \frac{1}{3} + 1\frac{1}{2}$ (3 marks)

b) Subtract 0.64 from 5 (2 marks)

28. a) On the number line below, circle the additive inverse of $^{-}4$. (2 marks)



b) Use >, < or = to complete these statements correctly.

i. $^{-}10$ _____ $^{+}6$ (1 mark each)

ii. $^{-}8$ _____ $^{-}8$

iii. $^{+}2$ _____ $^{-}2$

29. Work out:

i.
$$\begin{array}{r} 3\ 4\ 2_{\textbf{five}} \\ +\ 3\ 3_{\textbf{five}} \\ \hline \\ \hline \end{array}$$
(2 marks)

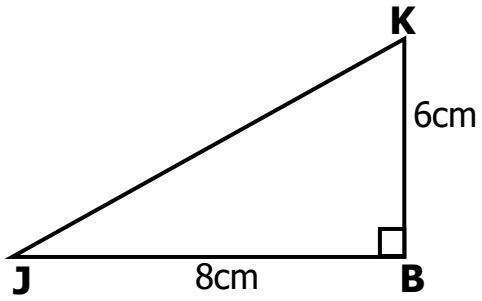
ii.
$$\begin{array}{r} 3\ \ 2_{\textbf{five}} \\ -\ 1\ \ 4_{\textbf{five}} \\ \hline \\ \hline \end{array}$$
(2 marks)

b) Convert $12_{\textbf{ten}}$ to binary system. (2 marks)

30. a) Without dividing, show that 5067 is exactly divisible by 3. (2 marks)

b) Find the product of the square root of 256 and the only prime-even number. (3 marks)

31. a) Using a ruler, a sharp pencil and a pair of compasses only, construct the triangle whose sketch is given below. (4 marks)



b) Measure $\overline{JK}$ (1 mark)

32. a) Given that m=3, n = 5 and p=2, find the value of;

i. $n^2 - mp$
(2 marks)

ii. $m(n-p)$
(2 marks)

b) Gabriella has k apples. Her brother Godfrey has 6 more apples. Write the expression of apples they have altogther? (1 mark)

********** END **********