

**TAIBAH INTERNATIONAL SCHOOL**  
**PRIMARY SEVEN MIDTERM 2 EXAMINATION**  
**2024**

**MATHEMATICS**

Time Allowed: 2 hours 30 Minutes

Pupil's Name: .....

Pupil's number: .....Stream.....

**Read the following instructions carefully:**

1. Section A has 20 short questions (40 marks)
2. Section B has 12 questions (60 marks)
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.


4. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
5. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.

**SECTION A: (40 MARKS)**

*Answer all questions*  
*Each question 1 to 20 carries **2** marks*

1. Work out:  $3 \times 3$

$$\begin{array}{r} \underline{3} \times 3 \\ \hline \end{array}$$

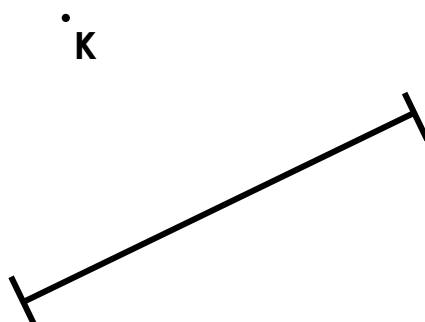
2. Write XLV in Hindu Arabic numerals.

3. Simplify:  $7m - 2n + m + 3n$

4. There are 7 proper subsets in set X. Find  $n(X)$

5. Express  $1001_{\text{two}}$  as a decimal base.

6. Using a pair of compasses, a sharp pencil and a ruler only, a drop perpendicular line through point K.

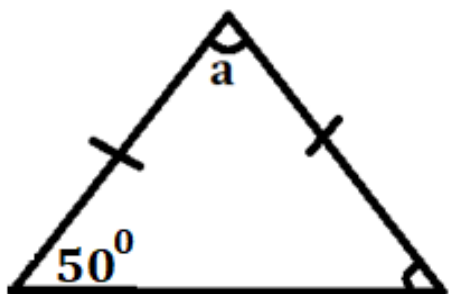


7. The mass of a calf was 120kg. It was fed well and its mass increased by 30%. What is its new mass?

8. The average mass of 3 boxes is 80kg. If two of them weigh 89kg and 86kg, find the mass of the third box.

9. Work out:  $2 - 4 = \underline{\hspace{1cm}}$  (finite 5)

10. In the diagram below, find the value of  $a$  in degrees.



11.

12. Find the next number in the sequence.

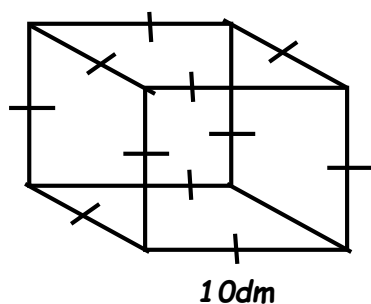
1, 3, 6, 11, 18, \_\_\_\_\_


13. Solve:  $2(w - 3) = 18$

14. The cost of 5 counter books is sh.45000, how many books will Ankunda buy with sh.27000?

15. An examination of  $2\frac{1}{2}$  hours began at 7:45am. At what time did it end?

16. Calculate the total surface area of this figure.



17. Given that  represents 15 balls. Draw pictures to represent 90 balls.
18. At Big banger Forex bureau, 1 U.S.A dollar = UgX.38,000. How much Uganda shillings will James exchange for 250 dollars ?
19. Work out  $(75 \times 12) - (25 \times 12)$  using distributive property.
20. Express 0.2727... as a vulgar fraction.

**SECTION B: 60 marks**

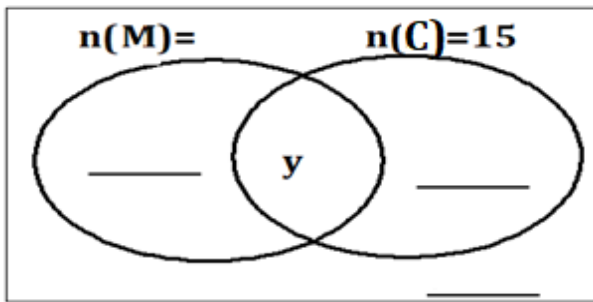
*Answer all questions in this sections*

*Marks for each question are indicated in brackets*

21. In a group,  $(2y + 3)$  pupils like matooke (M) only,  $y$  like both matooke and cassava, 15 pupils like cassava (C) while 4 pupils like none of the food stuffs.

(a) Complete the Venn-diagram below.

**(3 marks)**



- b). Given that 33 pupils like Matooke, find the value of  $y$ . (2 marks)

22. (a) Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle MTC such that  $MT = 6\text{cm}$ , angle  $MTC = 60^\circ$  and  $TMC = 45^\circ$ .

**(4 marks)**

- (b) Measure  $\angle MCT$

**(1 mark)**

23. A certain amount of money was shared among three candidates Joan, John and Janine in the ratio of 3 : 4 : 5 respectively.

(a) If John got sh. 36,000, how much money did they share altogether?  
(3 marks)

(b) How much money did Joan get less than Janine? (2 marks)

24. A woman went shopping and bought these items as shown in the table below.

Item	Quantity	Unit cost	Amount
Sugar	3kg	Sh. 4000	Sh. _____
Tea leaves	_____kg	Sh. 2000	Sh. 6000
Meat	$2\frac{1}{2}$ kg	Sh. 14000	Sh. _____
	Total		Sh. _____

(a) Complete the table. (4 marks)

(b) If she was given a discount of sh. 500, how much did she pay?

**(1 mark)**

25. (a) If  $P=9$  and  $m=3$ , find the value of  $P^{(5-m)}$

**(2 marks)**

(b) A father is 30 years older than his son. In 6 years time, he will be twice as old as his son. How old is each now?

**(3 marks)**

26. (a). A train completed a journey of 80km in half an hour. At what speed was it travelling?

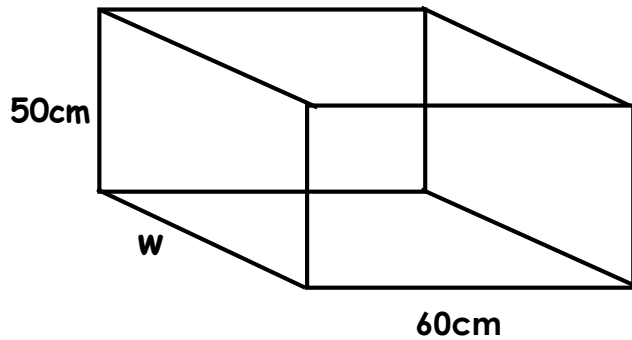
**(2 marks)**

b). Express 20m/s as km/h

**(3marks)**



27. The volume of the container below is  $120,000\text{cm}^3$ .



(a) Find the value of  $w$ . (3 marks)

(b) Calculate the total length of all its edges. (2 marks)

28. A man used  $\frac{1}{4}$  of his salary to buy food,  $\frac{1}{3}$  of the remainder to pay fees and saved sh. 600,000. How much does he earn monthly? (5 marks)

29. (a) The sum of three consecutive even numbers is 48. If the middle number is **K**, find the value of k. **(3 marks)**

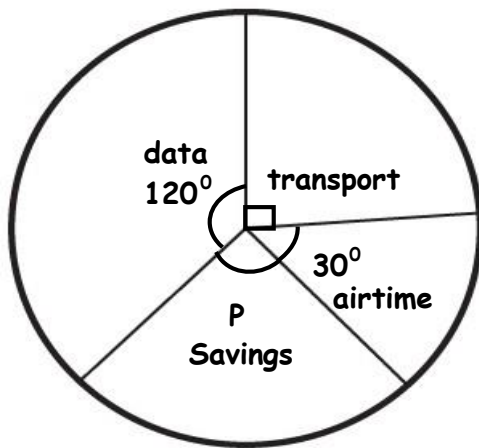
b). Find their range. **(2 marks)**

30. (a) Subtract:  $213_{\text{five}}$  from  $404_{\text{five}}$  **(2 marks)**

b). If  $42_n = 54_{\text{six}}$ , find the value of n. **(3 marks)**

31. The pie-chart below shows how Mr.Odongo spends his weekly allowance . Study it carefully and use it to answer questions that follow.

a) Find the value of  $p$ . (2 marks)



b). If he spends sh.27,000 on airtime, find his total monthly allowances?

(3 marks)

32. (a) IF today is Wednesday, what day of the week will it be after 45 days? (2 marks)

(b) Work out;  $+6 + -7$  on the number line below. (3 marks)

