WAKISO DISTRICT JOINT EXAMINATIONS BOARD

(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)

INTERNAL ASSESSMENT SET TWO TERM ONE 2024

PRIMARY SEVEN MATHEMATICS

TIME ALLOWED: 2 HOURS AND 30 MINUTES

NAME : _____

SCHOOL : _____

DISTRICT/ MUNICIPALITY : _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections A and B

2. Section A has 20 questions (40 marks)
   And B has 12 questions (60 marks)

3. Answer all questions in both sections A and B

4. All answers must be written in the spaces provided in blue or black ink.
   Only diagrams and graph work be done in pencil

5. Any handwriting which cannot be read, may lead to loss of marks.

6. Unnecessary crossings will lead to loss of marks.

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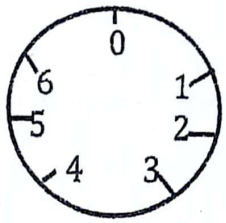
FOR EXAMINER'S USE ONLY

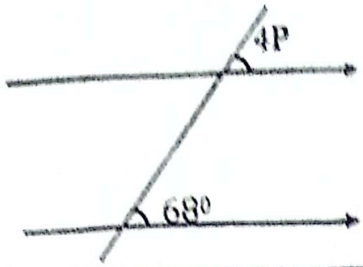
QN NO.	MARKS	SIGN
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40 MARKS)

1.	Divide. $18 \div 2$	2.	Use $<, >$ or $=$ to complete: -4 _____ $+4$
3.	My grandmother is 88 years old. Write her age in Roman Numerals.	4.	Given that set $T = \{\emptyset\}$, find the number of subsets in set T by listing them.
5.	Expand 69.47 using powers of ten.		
6.	Using a protractor, measure and draw an angle of 75^0 in the space provided.		
7.	Seven families shared 455kg of posho equally. How many kilograms of posho did each family get?		

8.	Given 1, ⁻5, 4, 0, ⁻3, 6. Find the range.	9.	Using a dial below, Workout 2 – 5= _____ (mod7) 
10.	A receipt book has receipts numbered consecutively from 07946 to 07995. How many receipts are in that book?		
11.	Workout: $\frac{2}{3} - \frac{1}{2} + \frac{1}{4}$		
12.	Multiply $43_{five} \times 2_{five}$		
13.	Toto bought $2\frac{1}{2}$ litres of milk at sh. 3000. What was the cost of a litre of milk?		

14. Find the value of P in the figure below in degrees.



15. The sum of three consecutive odd numbers is 117. If the median number is n, find the value of n.

16. Express 0.074 in standard notation.

17. Evaluate $4P^2$ if $P = 5$.

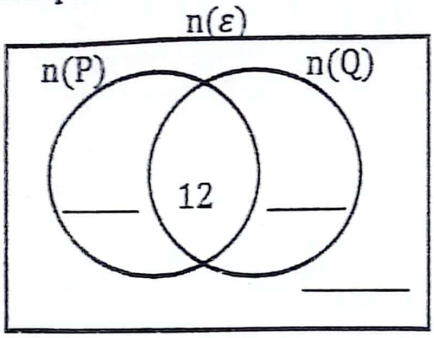
18. Express 15 minutes as a percentage of an hour.

19. What is the square root of $7\frac{1}{9}$

20. A bus moving at a speed of 130km/hr took 36 minutes to cover a distance. What distance did it cover?

SECTION A (60 MARKS)

21. (a) If $n(P-Q)=10$, $n(Q-P)=15$, $n(P \cap Q)=12$ and $n(P \cup Q)' = 8$
Complete the Venn diagram below.



(3mks)

(b) Find;
(i) n(Q)

(1mk)

(ii) $n(\varepsilon)$

(1mk)

22. (a) Express 75% as a ratio.

(2mks)

(b) Write $22\frac{1}{2}\%$ as a fraction in its lowest terms.

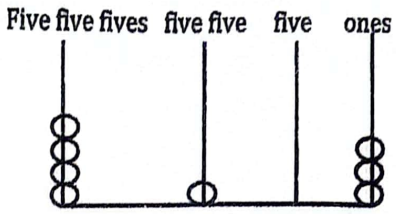
(2mks)

(c)	Convert 31% to a decimal fraction. (1mk)
23. (a)	Using a pair of compasses, sharp pencil and a ruler only, construct a triangle RST such that RS=7cm, $\angle R=60^0$ and RT=8cm. (4mks)
(b)	Measure the length of ST. (1mk)
24.	A parent gave money to his three daughters Jane, Rose and Mary in the ratio 3:5:4 respectively. If Rose got sh. 12500 more than Jane, how much money did the parent give out altogether? (4mks)

25. (a) Convert 32_{four} to base three.

(3mks)

(b) Write the number shown on the abacus in words.



(2mks)

26. Below is an addition magic square.

7	P	2
3	8	Q
R	S	9

(a) What is the magic sum?

(1mk)

(b) (i) Find the value of each letter.
P

(1mk)

(ii) Q

(1mk)

(iii) R

(1mk)

(iv) S

(1mk)

27. Study the frequency table below about P.6 boys in stream C and answer the questions that follow.

Age in years	9	11	12	13
Number of boys	4	1	2	3

(a) How many boys are in stream C?

(1mk)

(b) What is the modal age?

(1mk)

(c) Calculate the mean age.

(3mks)

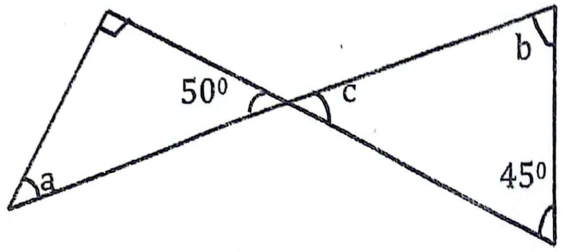
28. In a hospital, nurses and doctors work at intervals of 60 minutes and 45 minutes. One day, they all worked at 9:25am. At what time did they work altogether again on that day?

(5m

9. What is the product of the 8th triangular number and the 1st prime number?

(5mks)

10. In the figure below, find the values of angles marked with the letters.



) letter a

(2mks)

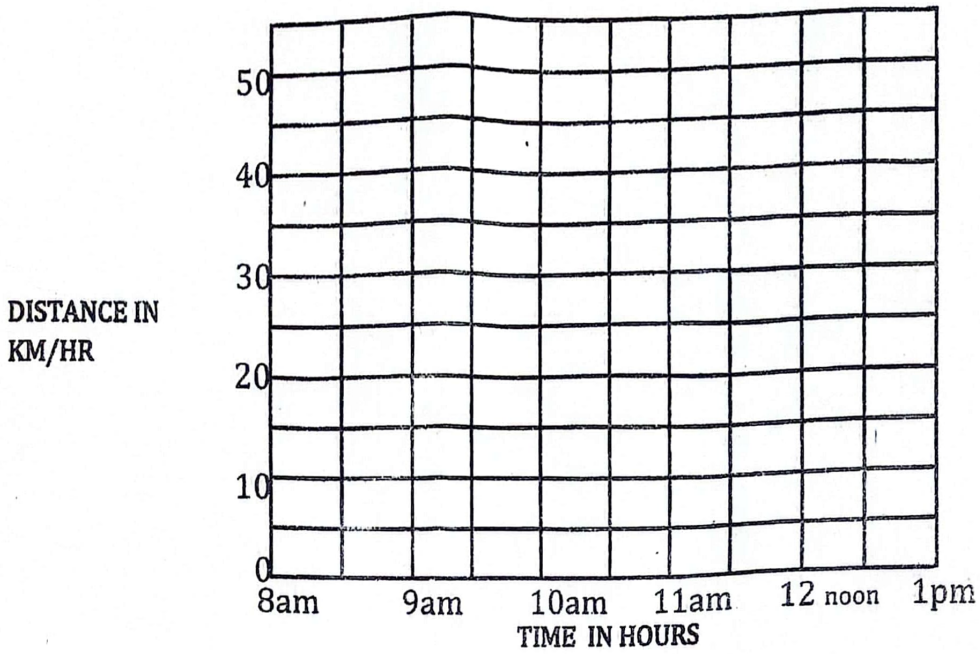
(ii) letter b

(2mks)

i) letter c

(2mks)

31. (a) Bosco left his home at 8:00am riding at a speed of 20km/hr for 1 hour and rested for $\frac{1}{2}$ an hour. He then continued riding at a speed of 12km/hr for $2\frac{1}{2}$ hours to the market. Show how Bosco moved on the grid below.



(4mks)

(b) How far is the market from Bosco's house?

(1mk)

32. A school has twice as many boys than girls. There are (P – 3) girls. If the total number girls and boys in a school is 810. Find the number of boys.

(5mks)

END