

WAKISO DISTRICT JOINT EXAMINATIONS BOARD
(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)
PRIMARY SEVEN INTERNAL ASSESSMENT

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

| Random No. | | | | | | Personal No. | | |
|------------|--|--|--|--|--|--------------|--|--|
| | | | | | | | | |

Candidate's Name:

Candidate's signature:

School Name:

District/Municipality:

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

Read the following Instructions Carefully:

1. This 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 spaces provided.
5. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
6. No calculators are allowed in the examination room.
7. Unnecessary changes and crossings in your work and handwriting that cannot easily be read may lead to loss of marks.
8. Do not write anything in the boxes indicated "For examiners' use only"

FOR EXAMINERS' USE ONLY

| FOR EXAMINERS' 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 | | |

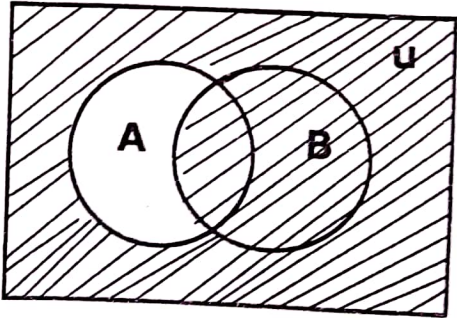
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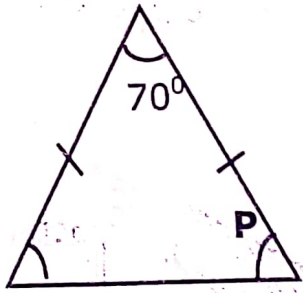
WA.D.E.B

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SECTION A (40 MARKS)

Answer all questions in this section.

| | | | |
|----|--|----|---|
| 1. | Add: $3.7 + 2.3$ | 2. | Write 49 as a Roman Numeral. |
| 3. | Subtract: $\frac{1}{2} - \frac{1}{4}$ | 4. | Find the next numbers in the sequence. 1, 3, 6, 10, 15, _____, _____ |
| 5. | Write eighty four thousand forty eight in figures. | 6. | Describe the shaded region in the Venn diagram below.  |

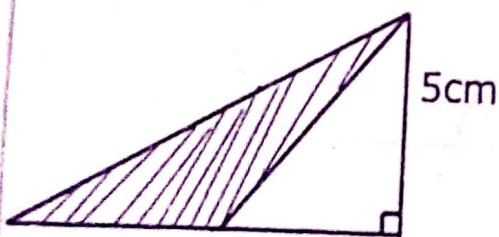
| | | | |
|-----|--|-----|---|
| 7. | Factorize completely: $4ap - 2a$ | 8. | Simplify: $-9 - +4 =$ |
| 9. | Show twenty minutes to three o'clock on the face shown.  | 10. | Given that $a=2$, $b=-4$. Find the value of $3a - b$. |
| 11. | If today is Thursday, what day of the week will it be 102 days from now? | 12. | Find the size of the angle marked P in the figure below.  |
| 13. | Round off 246.8 to the nearest whole number. | 14. | Subtract: $1010_{\text{two}} - 111_{\text{two}}$ |

15. When $\frac{1}{9}$ of the pupils in a class are absent, 32 pupils are present. Find the number of pupils in the class.

16. A school bursar deposited a bundle of twenty thousand shilling notes numbered from **BR2854600** to **BR2854799** consecutively. How much money did the bursar deposit?

17. Express 750 millilitres to litres.

18. The area of the shaded triangle is 20cm^2 . If the height of the triangle is 5cm, find the length of the base of the shaded triangle.

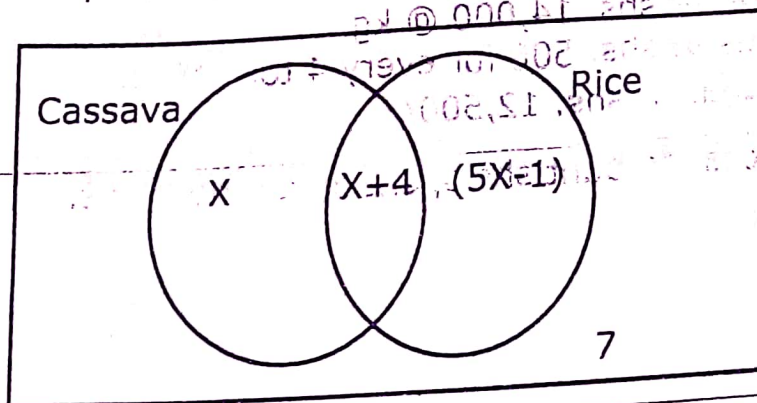


19. Find the median of the following integers.
4, -1, 2, 0, -4

20. Simplify: $3^2 \times 3^5$

SECTION B (60 MARKS)

21. The venn diagram below shows the number of farmers who grow different crops in a community farm.



- (a) If 24 farmers grow cassava, find the value of X .

(3mrks)

- (b) How many farmers grow only one crop?

(2mks)

22. Mukasa has two children, Kigongo and Kityo. If Kigongo is half his age, Kityo is a third his age and the total age of the two children is 30 years.
- (a) How old is Mukasa?

- (b) How old is the younger child?

(3mks)

(1mrk)

23. Shanitah went to the market and bought the following items.

- (i) $3\frac{1}{2}$ Kg of rice in half kg packets at shs. 1,900 @ pack
- (ii) 3kgs of meat at shs. 14,000 @ kg.
- (iii) 12 tomatoes at shs. 500 for every 4 tomatoes.
- (iv) $2\frac{1}{2}$ Kg of sugar at shs. 12,500/=

(a) Calculate the total amount she spent on all the items.

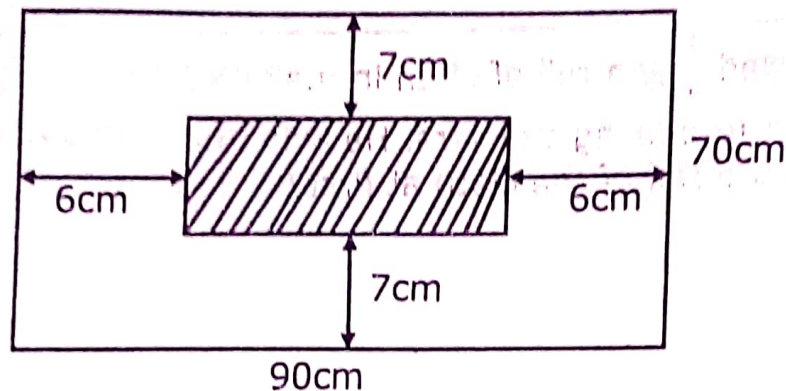
(5mrks)

(b) If she was given change of shs.700, how much money did she take to the shop?

(2mrks)

24. Using a ruler, pencil and a pair of compasses only, construct a triangle **LMN**. Where angle **LMN**= 60° , line **MN**= 7cm, and angle **MNL**= 45° in the space below.

28. A piece of cloth is laid on a table 90cm long and 70cm wide as shown in the figure below. The area covered by the piece of cloth is shaded.



- 28 (a) Find the length and width of the piece of cloth.

- (b) Find the area of the table which is not covered with a piece of cloth.

(2mrks)

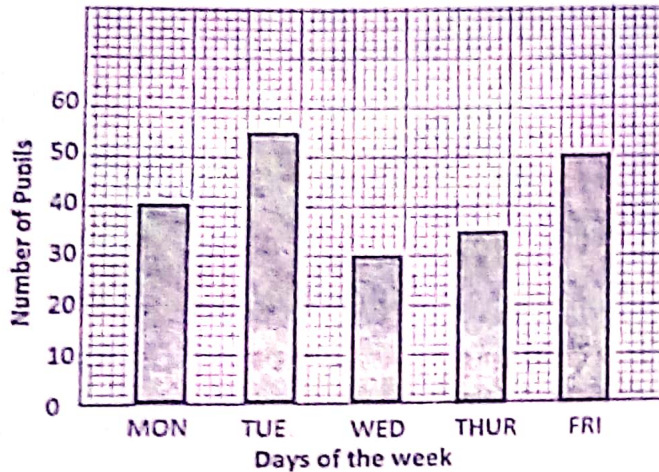
(3mrks)

29. A man got a loan of sh. 120,000 from a Savings and Credit Cooperative Society at a simple interest rate of 8% per annum. He paid an interest of sh. 7,200 on the loan. For how long was the loan?

(3mrks)

30. The graph below shows the attendance of P.7 pupils last week in Kagera primary school. Use it to answer the questions that follow. If it registered 60 pupils in the primary seven class.

| Days of the week | Mon | Tue | Wed | Thur | Fri |
|------------------|-----|-----|-----|------|-----|
| No. pupils | 40 | 55 | 30 | 35 | 50 |



- (a) How many pupils were present on Thursday?

(1mrk)

- (b) Find the difference between the highest and the lowest attendance.

(1mrk)

- (c) How many pupils were absent on Tuesday?

(1mrk)

- (d) Find the average number of pupils absent in that week.

(3mrks)

| | | | |
|------------|--|-----|---------------------------------------|
| 31. (a) | Solve for n: $34n = 201_{\text{three}}$ | (b) | Simplify: $\frac{(-3 - 9) - (-7)}{2}$ |
| | (2mrks) | | (3mrks) |

32. The table below shows how adverts are charged in a news paper per week.

| SIZE | BLACK AND WHITE | FULL COLOUR |
|---------------------------------|-----------------|-------------|
| Full page (inside) | 1,145,300/= | 1,750,000/= |
| Half page | 572,650/= | 875,000/= |
| Quarter page | 286,000/= | 438,000/= |
| Front page | 1,140,000/= | 1,630,000/= |
| Back page | 280,000/= | 610,000/= |
| 20% DISCOUNT EVERY AFTER 7 DAYS | | |

What would be the cost of advertising a full page in black and white for 3 weeks?

(4mrks)