

KAMPALA TEACHERS' EXAMINATIONS BOARD - KTEB
SPECIAL MOCK EXAMINATIONS 2024
PRIMARY SEVEN

MATHEMATICS

TIME ALLOWED: 2 ½ HRS.

NAME

SCHOOL.....

DISTRICT.....

EMIS NO.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This paper is made up of the two sections **A** and **B**
2. Section **A** has 20 short questions.(40marks)
3. Section **B** has 12 questions. (60 marks).
4. Answer all questions. All answers to both sections must be written in the space provided.
5. All answers must be written using blue or black ballpoint pen or ink. Diagrams must be drawn in pencils
6. Unnecessary alteration of work may lead to loss of marks.
7. Any hand writing that cannot be read may lead to loss of marks.
8. Do not fill anything in the box indicated

| FOR EXAMINER'S USE ONLY | | |
|----------------------------|------|------|
| QN NO. | MARK | SIGN |
| 1-5 | | |
| 6-10 | | |
| 11-15 | | |
| 16-20 | | |
| 21-25 | | |
| 26-28 | | |
| 29-31 | | |
| 32 | | |
| TOTAL | | |

SECTION A

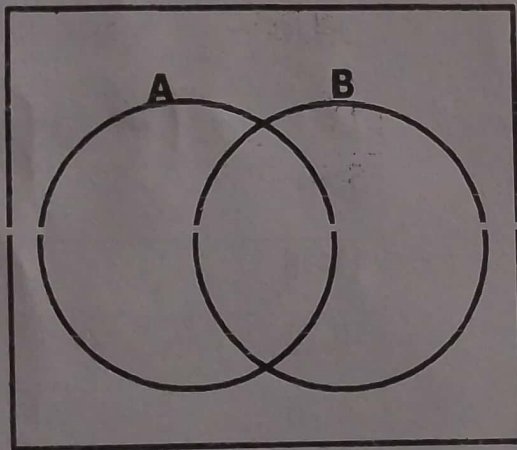
1. Add: $23 + 45$

2. The school has 1225 pupils. Write the number of pupils in Roman numerals.

3. Given that set $X = \{\text{vowels}\}$, find the number of subsets of set X .

4. Solve for the value of K if $2^k \times 2^{2k} = 64$

5. On the venn diagram below, shade $(A \cap B)^1$



6. Round off 76.753 to the next whole number.

7. Express 2:45pm time in 24 hour o'clock.

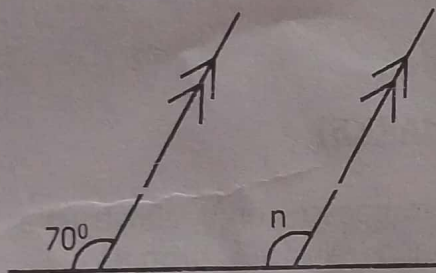
8. The average of 7, $2x$ and 5 is 10. Find the value of x .

9. The LCM of two numbers is to their G.C.F is 6. If one of the number is 12. Find the second number.

10. Use distribution property to work out; $(448 \times 37) - (37 \times 148)$.

11. The marked price of an item is sh. 5000. If a customer is offered a discount of 10%. How much did the customer pay for the item?

12. Find the value of n .



13. Find the next number in the series. 1, 3, 6, 10, 15, _____

14. A certain number of sweets was shared among 4 girls and 6 girls leaving a remainder of 1 sweet. How many sweets were shared?

15. Add: $342_{\text{five}} + 33_{\text{five}}$

16. If today is Tuesday, what day of the week will it be after 75 days?

17. One US dollar costs shillings 3735. How many dollars can one get in Ugsh. 93375?

18. Given that $p = 4$ and $t = -2$. Find the value of $2p - t$.

19. Write 0.0457 in standard form.

20. An athlete moved twice a rectangular field of measurement 100cm by 50cm. Find the total distance moved by the athlete.

SECTION B (60 MARKS)

21. (a) Using a pencil, a ruler and a pair of compasses only, construct a triangle MTN where $TN = 5\text{cm}$, $\angle T = 120^\circ$ and $\angle N = 30^\circ$, drop a perpendicular line from M to meet TN at point Y. (4 marks)

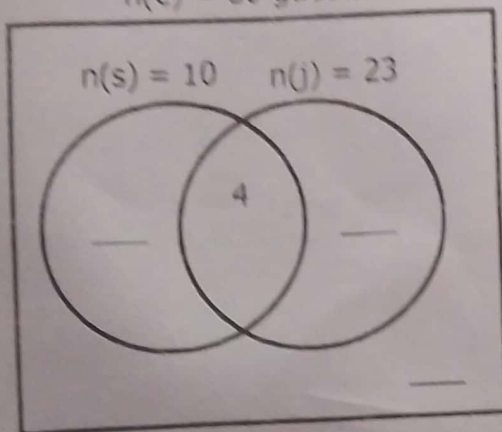
b) Measure line MY. (1 mark)

22. At a birthday party attended by 50 guests, all drunk water, 10 drunk soda and water, 23 drunk juice and water, 4 took all the three drinks. L guests drunk water only.

a) Represent the above information on a venn diagram below.

$n(\epsilon) = 50$ guests

(3 marks)



b) How many guests drunk juice only? (1 mark)

c) Find the total number of guests who took only two drinks. (1 mark)

23. (a) Solve: $44p = 35$ nine (3 marks)

b) Workout: $11_{\text{two}} \times 11_{\text{two}}$ (2 marks)

24. Janat spent $\frac{1}{4}$ of her salary on fees and $\frac{1}{6}$ of the remainder on clothes and saves sh. 144,000.

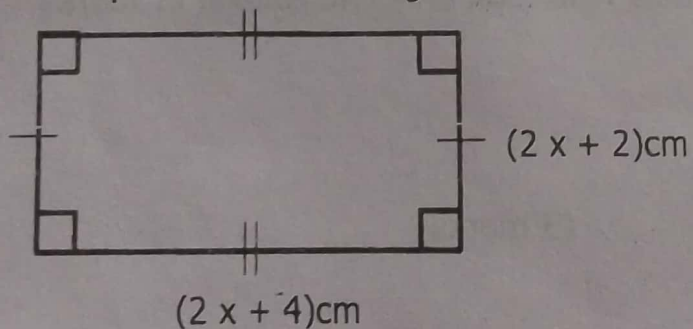
a) How much is her monthly salary? (3 marks)

b) How much did she spend on clothes? (2 marks)

25. (a) Workout: $3\frac{1}{8} \div 3\frac{3}{4} \times 1\frac{4}{5}$ (3marks)

b) Given that $\frac{2}{4}$ of a number is 16. Find the number. (2 marks)

26. The perimeter of the figure below is 68cm.



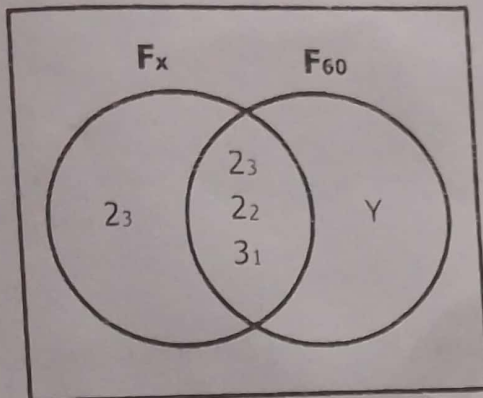
(a) Work out the value of x.

(2 marks)

b) Calculate the area of the figure above. (3 marks)

27. Jackson is 5 years older than Mark. In 5 years' time the total of their ages will be 55 years. How old is of them now? (5 marks)

28. use the venn diagram below to answer the questions that follow.
(a) Find the value of; (i) X



(ii) Y (1 mark)
marks)

(b) Calculate the G.C.F of f_x and f_{60} (2

29. (a) Study and complete the shopping bill below. (4 marks)

| Item | Quantity | Unit cost | Total cost |
|-------|-------------|------------|------------|
| Sugar | 21/2 kg | Sh. 3,500 | Sh. _____ |
| Meat | _____ kg | Sh. 12,500 | Sh. 37,500 |
| Rice | 2kg | _____ | Sh. 5,200 |
| Total | expenditure | _____ | Sh. _____ |

b) If a mother had two fifty thousand shillings, Find her change.(1 mark)

30. (a) Find the quotient of the value of 7 and the value of 5 in the number 7925. (3 marks)

b) Workout the place value of 4 in the numeral 52.467 (2 marks)

31. Mukasa driving at 80km/hr took $2\frac{1}{2}$ hours from town X to town Y, he then continued to town R in 2 hours at 89km per hour.
a) Find the distance from town X to town R. (3 marks)

b) Calculate his average speed from town X to town R. (2 marks)

32. The table below show marks obtained by pupils in an examination.

| | | | | | |
|------------------|----|----|----|----|----|
| Marks | 75 | 90 | 60 | 50 | 80 |
| Number of pupils | 2 | 1 | 2 | 4 | 1 |

a) Find;

i) Number of pupils who did the exams. (1 mark)

ii) Average (2 marks)

iii) Range (1 mark)

END