

KAMWENGE CATHOLIC DEANARY EXAMINATION BOARD

PRE - MOCK EXAMINATION 2024

P.7 MATHEMATICS

Time Allowed : 2 hours 30 minutes

Random No.						Personal No.		

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

SCHOOL NAME:

SUB - COUNTY:

CATHOLIC PARISH:

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

- The paper is made up of two sections A and B.
Section A has 20 short answer questions (40 marks).
Section B has 12 questions (60 marks).
- Answer all questions. All working and answers for both sections A and B must be shown in the spaces provided.
- 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.
- No calculators are allowed in the examination room.
- Unnecessary changes in your work and handwriting that can not be read easily may lead to loss of marks.
- Do not fill anything in the table indicated.
"FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

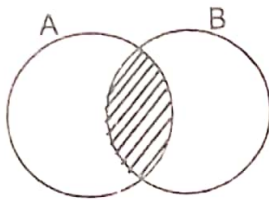
FOR OFFICIAL USE ONLY		
Qn. No.	MARKS	EXR'S NAME
1 - 7		
8 - 14		
15 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A

1. Add: $64 + 13$.

2. Write "Twelve thousand twelve" in figures

3. Describe the unshaded region.

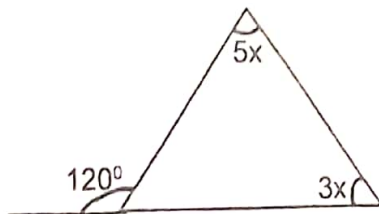


4. Simplify: $-9 - -3$

5. Find the next number in the sequence.

73, 71, 68, 63, 56, _____

6. In the figure below, find the value of x .



7. Lillian deposited sh. 100,000 in a bank which offers an interest of $7\frac{1}{2}\%$ per month for only one year. How much interest did the money yield?

8. Use a ruler, a pencil and a pair of compasses only, drop a perpendicular line from point O to meet line AB at N.



9. Ritah had a bundle of five thousand shilling notes numbered consecutively from CH 2 6 3 2 6 5 6 to CH 2 6 3 2 7 5 5. How much money did she have altogether?

10. Given that $a = 3$, $b = a$ and $c = b + 4$, find the value of $ab + c$.

11. The base area of a rectangular tank is 40 square centimetres, find its volume if its height is 50 cm.

12. The mean of k , 3, 5 and 2 is 3. Find the value of k .

13. What number has been expressed in standard form.
 2.24×10^3 ?

14. Kaggwa is 7 years older than Mpumwire. In 10 years time, their total age will be 75 years. How old will Kaggwa be in 10 years to come?

15. A teacher's salary of sh. 320,000 was increased by 10%. Calculate the new teacher's salary.

16. Maria driving at 80km/hr took 48 minutes from Kahunge to Ibanda. Find the distance she covered.

17. A workshop started on Wednesday and took 27 days. Find the day of the week on which the workshop ended?

18. Write the morning time shown on the clock face below in 24 hour clock.



19. The value of a certain digit h in $3h1$ is 10. Find the value of h .

20. Find the least number of sweets that can be shared by 6 or 8 boys leaving a remainder of 3 sweets.

SECTION B

P.7 Maths

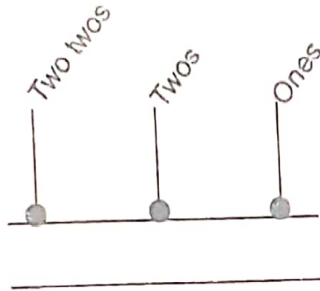
(2 mks)

21(a) Work out:

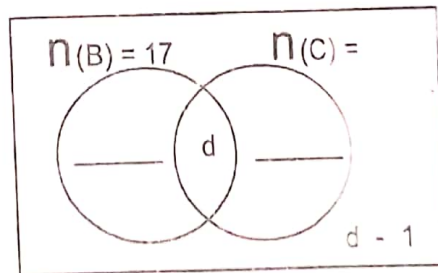
$$\begin{array}{r} 1 \quad 1 \quad 1_{\text{two}} \\ \times \quad 1 \quad 1_{\text{two}} \\ \hline \end{array}$$

(b) Express the number shown on the abacus in base ten.

(3 mks)



22. The Venn diagram below shows the number of guests who eat beef (B) and chicken (C).
 12 guests eat chicken only, 17 guests eat beef and $(d - 1)$ eat neither of the two.
 (a) Use the information above to complete the Venn diagram below. (1 mk)



- (b) If the guests who eat beef only is the same as those who eat chicken only, find the value of d . (2 mks)

- (c) Find the probability of selecting a guest at random who does not eat chicken? (2 mks)

The table below shows Musa's shopping bill

ITEM	QUANTITY	UNICOST	TOTAL COST
Sugar	3 kgs	sh. 5,200	sh. _____
Rice	$2\frac{1}{2}$ kg	sh. _____	sh. 12,000
Salt	_____ kg	sh. 2,800	sh. 2,100
Wheat flour	$\frac{1}{2}$ kg	sh. _____	sh. _____
Total expenditure			sh. 33,000

(1 mk @)

Complete the table above.

24(a) Find the multiplicative inverse of $\frac{3}{4}$

(2 mks)

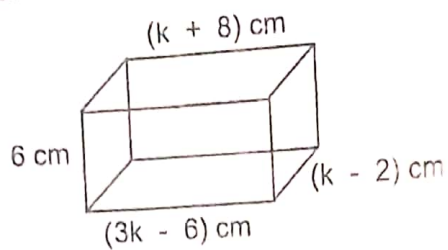
(b) Simplify: $\frac{0.24}{0.08 \times 0.6}$

(3 mks)

25. The sum of three consecutive even numbers is 18. If the middle number is y , find the range of numbers.

(4 mks)

26. The figure below is a cuboid. Use it to answer questions that follow.



(a) Find the value of k .

(2 mks)

(b) Calculate its volume.

(4 mks)

27(a) Using a ruler, a pencil and a pair of compasses only. Construct triangle XYZ where $\overline{XY} = \overline{YZ} = 6\text{cm}$ and $\angle Y = 75^\circ$.

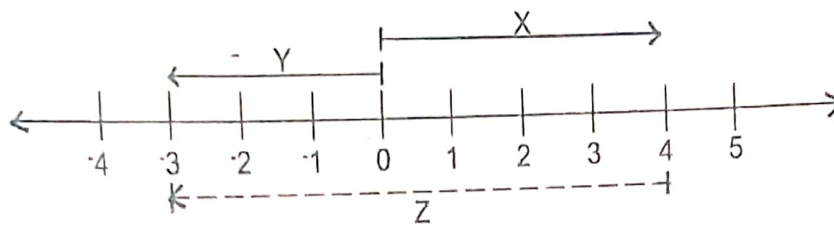
(4 mks)

(b) Measure line \overline{XZ} .

(1 mk)

Study the numberline below and use it to answer the questions that follow.

P.7 Maths



(i) Find the value of;

(1 mk @)

$X =$ _____ $Y =$ _____ $Z =$ _____

(2 mks)

(ii) Write the mathematical statement represented above.

29. The table below shows marks scored by different pupils in a P.7 entry interview.

Marks scored	40	80	60	90
Number of pupils	3	2	4	1

(a) How many pupils did the interview?

(1 mk)

(b) Calculate the average mark.

(3 mks)

(c) If the average mark was the passmark, how many pupils passed the interview?

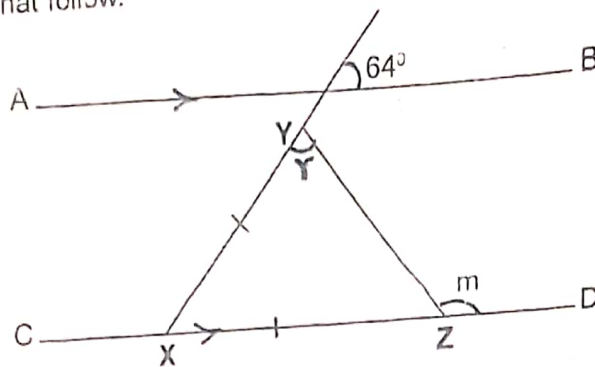
(1 mk)

30. In a test of 20 questions, a teacher awarded 5 marks for every correct answer and deducted 2 marks for every wrong answer. A candidate got 65 marks.

How many correct questions did he get?

(3 mks)

31. In the figure below AB is parallel to CD and $XY = XZ$. Study it and answer the questions that follow.



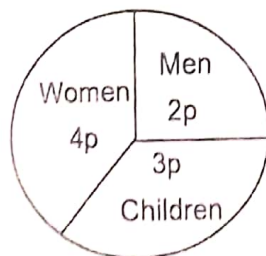
- (a) Find the value of angle r .

(3 mks)

- (b) What is the size of angle YZD ?

(2 mks)

32. The circle graph below shows the population of a village in Kamwenge district. Use it to answer the questions that follow.



- (a) Find the value of p in degrees.

(2 mks)

- (b) If there are 720 children in that village, calculate the total population of the village.

(3 mks)

- (c) Express the number of women as a ratio of children in that village.

(1 mk)