## KAMWENGE CATHOLIC DEANARY EXAMINATION BOARD PRE - MOCK EXAMINATION 2024 P.7 MATHEMATICS

Time	<b>Allowed</b>	: 2	hours	30	minutes
------	----------------	-----	-------	----	---------

CATHOLIC PARISH: .....

Random No.				Personal No.				
7						1		11

CANDIDATE'S NAME: By FR	SILAS (K	EPL	ER)	<u> </u>
CANDIDATE S NAIVIE.				
CANDIDATE'S SIGNATURE:				
SCHOOL NAME:				
SUB-COUNTY:	my William	4	× 1	
SUB-COUNTY:			2	

## DO NOT GPEN 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.
- 3. 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.
- 4. No calculators are allowed in the examination room.
- 5. Unnecessary changes in your work and handwriting that can not be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated:

## "FOR EXAMINERS' USE ONLY" and boxes

211	inside the question paper.
( , ,	

(	(:	2

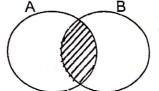
2024 Kamwenge Catholic Deanary Examination Board

FOR OFFICIAL USE ONLY

1. Add: 64 + 13.

2. Write "Twelve thousand twelve" in figures.

3. Sescribe the unshaded region.

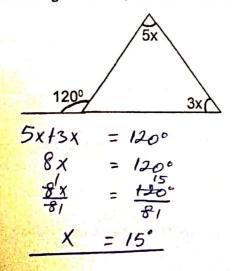


AUB-AMB

4. Simplify: -9 - -3

5. Find the next number in the sequence.

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



7. Liallian 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?

1. Loop x 90

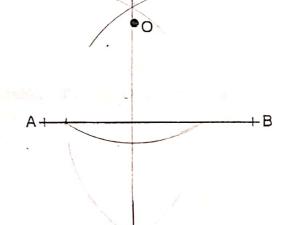
month for only one year. How matrimed did the money yield?

S. 
$$T = P \times R \times T$$

th.  $1000 \times 71 \times 11$ 

th.  $1000 \times 15 \times 6$ 

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?

loonotes.

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

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

Volume = base area x height LIOCHIZ X 50cm 2000 cm3

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

Mean = Sum of dates KHO-10 = 12-10
Lumber of Lates IL = 2

<u>K+3+5+2</u> = 3

13. What number has been expressed in standard form.

2. 24 x 10<sup>3</sup>? 2024 X16x16x18 2024X1 2024

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? Let upumwire's age be K How LOYPS KHTHO KHIO Kt7HotKHO = 75 = 75 KHK+1740 2K+27 24+17 = 75-27

2K+27-27 15. A teacher's salary of sh. 320,000 was increased by 10%. Calculate the new teacher's salary.

(100 4 + 104) of Sh. 320,000 110 x Sh. 320,000 110 x Sh. 3200

Sh. 352000

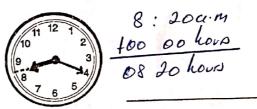
16. Maria driving at 80km/hr took 48 minutes from Kahunge to Ibanda. Find the distance

she covered. b= SXT S = 80KM D = SOUMX HOS

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

(day + date) -1 = - (hinite 7) (3+27)-1=- (hinter) 29:7 = 41em ((hinter) I represents monday : It ended on monday.

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 five is 10. Find the value of h.

Value of h. = 10

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

remainder of 3 sweets. 3 (hinte b) =  $\begin{cases} 3, 9, 15, 21, 27, 33 - - - \end{cases}$ . 3 (hinte 8) =  $\begin{cases} 3, 11, 19, 27, 35 - - - \end{cases}$ .

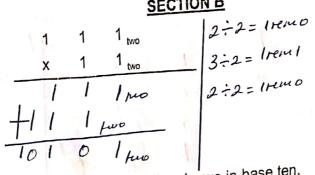
3

P.7 Maths

## SECTION B

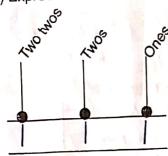
(2 mks)

21(a) Work out:

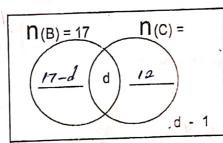


(3 mks)

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



- 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 tghe venn diagram below. (1 mk @)



(b) If the guests who eat beef only is the same as those who eat chicken only, find the (2 mks)

value of d. 
$$\frac{\sqrt{aur}}{17-d} = \frac{d}{12} = \frac{-5}{-1}$$
 $\frac{17-d}{17-d} = 12$ 
 $17-17-d = 12-17$ 
 $-d = -5$ 

(c) Find the probability of selecting a guest at random who does not eat chicken? E = 17-5+5+12+4 Desired chances

12+5+16

17-d+d-1

17+16

17-5+5-1

33 pupils

12+4

16 pm

4

(2 mks)

he table below shows Musa's shopping bill.

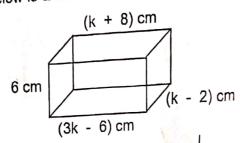
1-11/ S	hows willsa		are to the contract of the con
e table below s	hows with a second	UNICOST	TOTAL COST
ITEM	QUANTITY	sh. 5,200	sh. <u>15600</u>
Sugar	3 kgs	sh. <u>1/800</u>	sh. 12,000
Rice	$2\frac{1}{2}$ kg	sh. 2,800	sh. 2,100
Salt	# kg	sh 6600	sh. 3300
Wheat flour	$\frac{1}{2}$ kg	sn	sh. 33,000
Tatal aynang	diture	1 1	

	31	1, 00,000
Total expenditure	Wheat flour	(4.16.6)
Complete the table above. Potal Cost-	unit lost = th. 33coil	(1 mk @)
Complete the lable above.	M 415-10	1,11 1 3
Sh. 15,600	Sh. 3300 x2	15
Sk.15600   18h. 2,100	54.6600	
134. 29.700	Problem A	1
Pice = Sh. 12000 - 21 Sh. 29,700	Court 1	46
Sh. 12000 = 5 Wheat Flour	300 01/ 21/10	
Sh. 12000 x 2 Total Cost, Su. 29,70	or 2800	
Sh. 12000 = 5 Sh. 12000 = 5 Sh. 12000 x 2 Sh. 12000 x 2 Sh. 4800	10 M. 4	(2 mks)
24(2) Find the multiplicative inverse of 4	3 49	(2)
let me morre	1	L Evil
$\frac{3}{4} \text{ oth } = 1 + \frac{3h}{4} = 1 + 4$ $\frac{3}{4} \times h = 1 + \frac{1}{3} \cdot h = \frac{1}{3} \cdot h$	11 1.	
4 0 1 4	1 = 4	
3xh =1   3h = 4		(6)
	The state of the s	(3 mks)
(b) Simpiny.	· V	
0.08 x 0.6	,	
0.4. (8 x b) 8	_	
$\frac{24}{100} \div \left(\frac{8}{100} \times \frac{6}{10}\right) \xrightarrow{\frac{11\times 10}{8}}$	- 6	
24		

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

range of numbers.

Culive ever	11101111				(4 mks)
,					1157=6-2
187	en 1	3-1	Total	4	H
4-2	4	412	18	A FAMOUR	2nd = 6
	2	1			3rd = 4+2
4-2+4	1+4+2	=18	134	= 181	8 ,,
	1-212	=18	3	= 18	Remyl = H-L
4+4+	7-21	5	3	. /	8-4
				4 = 6	<u> </u>
	Participation of the Control of the				



(2 mks)

(a) Find the value of k.

$$3k-6 = k+8$$

$$3k-1k = 8+6$$

$$2k = 14$$

$$15cm$$

$$2k = 14$$

$$12k = 14$$

$$1 - 2)cm$$

$$1 - 2 - 3$$

$$1 - 2 - 3$$

$$1 - 2 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1 - 3$$

$$1$$

(4 mks)

27(a) Using a ruler, a pencil and a pair of compasses only. Construct triangle XYZ where  $\overline{XY} = \overline{YZ} = 6$ cm and  $\angle Y = 75^{\circ}$ . (4 mks)

XY = XZ = 60 Syetch

ben

75°

x ben

Y

.

Accurate dingreum
Them

15°C

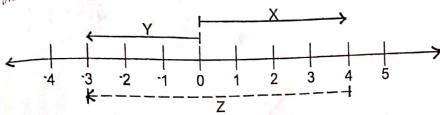
(b) Measure line XZ. 7.3 cm

(1 mk)

6

the nimberline below and use it to answer the wuestions that follow.

P.7 Maths



(i) Find the value of;

(1 mk @)

$$Y = \frac{-3}{2}$$

$$z = -7$$

(ii) Write the mathematical statement represented above.

(2 mks)

$$^{-3}-^{t}H=^{-7}$$

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

THE LADIO DOLONG CHARLES				
Marks scored	40	80	60	90
Number of pupils	3	2	4	7.16

(a) How many pupils did the interview?

(1 mk)

(3 mks)

(b) Calculate the average mark.

Average = fum of duta

Lumber of duta

(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.

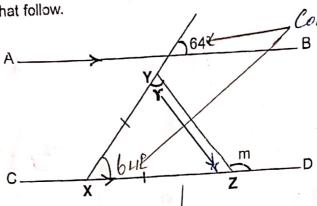
How many correct questions did he get? Let the Correct questions be M. (3 mks)

Popul mark 5×M - 2(20-m) = 65

7m-Hot40 = 65 +40

31. In the figure below AB is parallel to CD and XY = XZ. Study it and answer the Corresponding angles 1

questions that follow.



(a) Find the value of angle 1.

$$r + r + 6H^{\circ} = 180^{\circ} - 6H^{\circ}$$

$$2r + 6H^{\circ} - 6H^{\circ} = 180^{\circ} - 6H^{\circ}$$

$$2r = 116^{\circ}$$

$$\frac{2r}{2} = \frac{116^{\circ}}{2}$$
(b) What is the size of angle YZD?

(3 mks)

(2 mks)

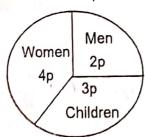
b) What is the size of angle YZD?

Thm = 180° (Supplementary angles).

$$58^{\circ}$$
 fm = 180°

 $58^{\circ}$  -  $58^{\circ}$ 

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,

a) Find the value of p in degrees.

$$\frac{HP+3P+4P}{4P+3P+2P} = 360^{\circ}$$

$$\frac{9P}{7P} = 360^{\circ}$$

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

If there are 720 children in that village, calculate the total population of Children = 
$$3 \times 40^{\circ}$$
 |  $\frac{10^{\circ}}{720} + \frac{120^{\circ}}{360^{\circ}} = \frac{120^{\circ}}$ 

(c) Express the number of women as a ratio of children in (1 mk)

Lucimen = 
$$\frac{21 \times 10^{12}}{3 + 10^{12}} \times \frac{24}{9 + 10^{12}} \times \frac{24}{9 + 10^{12}} \times \frac{24}{720} = \frac{84}{53} = \frac{4}{3}$$

HOX2LI

960 women. 8 END