ST CHARLES LWANGA NUR AND PRI.SCH.KAWANDA

PRE-MOCK SET THREE EXAMINATIONS, 2024

P.7 MATHEMATICS

Time allowed: 2hours 30 minutes

Index No.:_____STREAM: _____

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

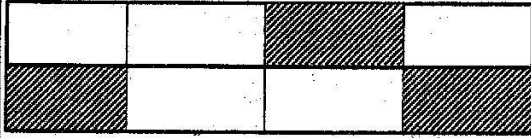READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two section A and B
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer all questions in both sections A and B.
5. All answers must be written in the spaces provided in BLUE or BLACK ink.
   Only diagrams should be drawn in pencil.
6. Unnecessary crossing will lead to loss of marks.
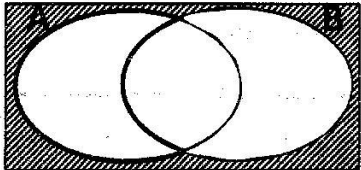7. Poor handwriting, which can not be easily read, may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teachers' comment to pupil

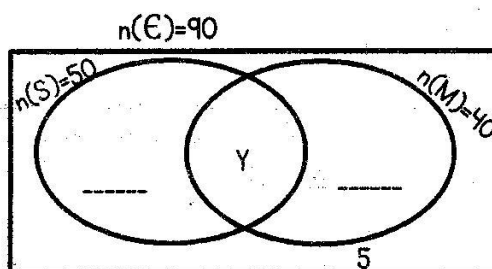|	SECTION A		
I.	Work out: $^-5 + ^-3$	2.	Find the next number in the sequence. 4, 8, 12, 16, _____
3.	Convert 6m to km.	4.	Solve: $Y + 2 = 8$
5.	Write XXXV in Hindu Arabic numerals.	6.	Set X has 4 elements. Find the number of subsets in X
7.	How many sides has an Octagon.	8.	Change 36_{ten} to base four
9.	If a cow has four legs, how many legs will 40 cows have?	10.	What is the fraction shaded.

11.	What is the square of 9.	12.	Draw tallies to represent 21
13.	Describe the shaded region in the Venn diagram. 	14.	Use distributive property to work out: $(12 \times 36) + (12 \times 64)$
15.	Using a ruler, a pencil and a pair of compasses only, construct an angle of 75^0.	16.	Which number has been expanded? $4000 + 20 + 2$
17.	A dice is tossed once. What is the probability that a composite number will appear on top?	18.	Work out: $4\frac{1}{2} - 2\frac{2}{3}$.

19. Write: 2956 in words.	20. Find the area of a triangle XYZ below.

20. Find the area of a triangle XYZ below.

X
7cm 9cm 16cm
6cm
Y Z 8cm W

SECTION B

21. At Kheza primary school of 90 pupils, 50 pupils like science (s), 40 pupils like math (M), Y pupils like both subjects while 3 pupils like neither of the subjects.
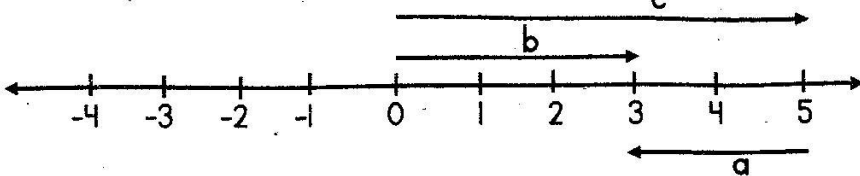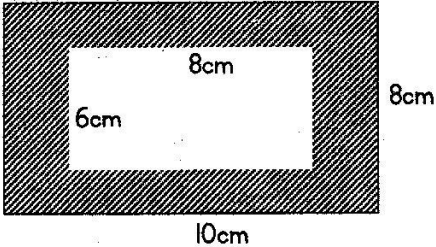Complete the Venn diagram below.

$n(E)=90$

$n(S)=50$ $n(M)=40$

Y

_____   _____

5

2 marks

(b) How many pupils like both subjects	(c) How many pupils like any one subject?
2 marks	*1 marks*

22 (a) An exterior angle of a polygon is 30^0. Find the size of the interior angle.	(b) How many sides has a polygon?
2 marks	*1 marks*

(c)	Calculate the interior angle sum of the polygon.		
			2 marks
23 a)	Solve the equation below. $2x = 18$	(b)	State the solution for P $P > 13$
	2 marks		*2 marks*
24 (a)	What number is expanded below? $(7 \times 10^3) + (2 \times 10^2) + (4 \times 10^1) + (9 \times 10^0)$	(b)	Show 8021 on the abacus

	3 marks		*2 marks*
25	With the help of a ruler, a pencil and a pair of compasses only. Construct triangle OPQ in which POQ = 90°, OP = 5cm and OQ = 7cm.		(b) Measure angle OPQ
			1 marks
			(c) Measure PQ
	4 marks		*1 marks*

26	Study the number line below and answer the questions that follow.
(a)	

(a)	Write down the integers represented by arrows.	(b)	What mathematical statement is shown on the number line?
(i)	a _____		
(ii)	b _____		
(iii)	c _____ _1 marks @_		_2 marks_

27	A bus driver drove from Kampala to fort portal a distance of 240 km from 10:00am to 2:00pm

(a)	Calculate his average speed.	(b).	Express 54km/hr into metres per second
			2 marks
	2 marks		

28	Study the figure below.	(a).	Calculate the area of the shaded part.
			4 marks

29	Tuwagule is four times as old as his brother. Their total age is 25 years		
(a)	How old is Tuwagule's brother?	(b)	How old will Tuwagule be when his brother is 15 years
	3 marks		*2 marks*

30	Mary scored the following marks in different Maths test 90%, 75%, 60%, 85%, 40%		
(a)	Find the median mark.	(b)	Find the range.
	2 marks		*2 marks*
(c)	Calculate the average mark.		
	2 marks		

31	Mrs. Lwere went shopping and bought the items below
	2 kg of rice for Shs 3000 each kg.
	$2\frac{1}{2}$ Kgs of sugar for Shs 5000 each kg
	Tomatoes for Shs 3000
	I bar of soap for Shs 3500.

(a)	How much did she spend altogether?		(b)	If she was given a 10% discount, how much was the discount?
	3 marks			*3 marks*

32	If the line equation of the co-ordinates graph is X = Y + I
	Complete the table below.

X	_____	0	_____	2	_____
Y	-2	_____	0	_____	2

5 marks