

HOIMA DIOCESE EXAMINATIONS BOARD PRIMARY SEVEN MOCK EXAMINATION 2 0 2 5

MATHEMATICS

Index No.	Time I	ti di				
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School Name: .	******************		***************************************	****************	•••••	
District:	*************					

Read the following instructions carefully:

- This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions. This paper has 12 printed pages.
- Answer all questions. All the working for both sections A and B must be shown in the space provided.
- All the 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.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- Do not fill anything in the boxes indicated "FOR EXAMINERS' USE ONLY" and in the boxes inside the question paper.

FOR EXAMINERS' USE ONLY							
Qn. No.	MARKS	EXR'S NO.					
1-5		ta .					
6-10							
11-15							
16-20							
21-22							
23-24							
25-26							
27-28							
29-30	1						
31 - 32							
TOTAL							

SECTION A: 40 MARKS

Answer **all** the questions in this section Questions **1** to **20** carry two marks each

- 1. Work out: 4 hundreds + 5 tens =
- 2. Write "sixty thousand one" in numerals.
- 3. Solve for t: 3t 4 = 8

4. Find the next number in the sequence:

14, 11, 8, 5, ____

5. Set M has 31 proper subsets. Find n(M)

Find the number which has been expanded below;

$$(3 \times 10^3) + (4 \times 10^2) + (5 \times 10^{-2}) + (6 \times 10^1)$$

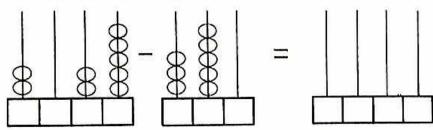
 Calculate the highest number of children that can share either 18 mangoes or 24 oranges leaving no remainder.

- 8. Express 20 square metres in square centimetres.
- 9. Work out the value of y in; $3^2 \times 7^y = 441$
- 10. A nurse on night duty reported for work at 9:22 pm and worked till 8:00 am. Find the total time she spent on duty.

11. Work out: $1\frac{1}{2} \div \frac{2}{3}$

12. Two angles; 2p and 3p are supplementary angles. Calculate the size of the larger angle.

13. The abaci below show subtraction of numbers in base ten. Use the Information given to work out the subtraction.



14. A basket contains 28 fruits: 10 are mangoes, 8 are oranges, 5 are apples and the rest are guavas. Find the probability that a fruit picked at random is a guava.

15. Solve for the value of k in: $3k1_{four} = 53$

16.	Simplify	: 5a -	3	(2+a)
		. 54	-	(

18. The area of a square cardboard is
$$\frac{9}{16}$$
 dm². Work out the total distance round the cardboard.

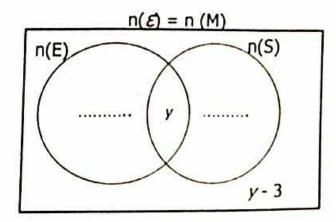
SECTION B: 60 MARKS

Answer all the questions in this section.

Marks for each question are indicated in brackets.

- 21. In a P.7 class, all the pupils like Mathematics (M), (3y-5) pupils like English and Mathematics but not Science, 20 pupils like Science and Mathematics, (y-3) pupils like Mathematics only and y like all the three subjects.
 - (a) Complete the Venn diagram below.

(02 marks)



- (b) Given that 30 pupils like at least two subjects;
 - (i) Find the value of y.

(02 marks)

(ii) Calculate the total number of pupils in the class.

(02 marks)

The table below shows exchange rates at a certain Forex Bureau. Study it carefully
and use it to answer questions that follow.

Currency	Buying rate	Selling rate
1 US dollar	Ug.sh 3800	Ug.sh 4000
1 Pound sterling	4500	4800
1 Kenyan shilling	35	40

- (a) Ali came from USA with 250 dollars. How much money did he have in Uganda shillings? (02 marks)
- (b) If one had 200 pound sterling, how much would it be in Kenyan shillings?
 (03 marks)

23. (a) Add: 1 2 3_{five}
+ 2 0 1_{five}

(01 mark)

(b) Express 1101_{two} in octal base

(03 marks)

24.	Using MTN	a ruler, whose	a sha line	nrpen TN	ed pe = 8	ncil a .4 cr	ndap n, <n< th=""><th>air ol</th><th>f co =</th><th>mpass 120°</th><th>es on and</th><th>ly, cons angle</th><th>ar M</th><th>triangle = 30 <i>marks</i>)</th></n<>	air ol	f co =	mpass 120°	es on and	ly, cons angle	ar M	triangle = 30 <i>marks</i>)
	(b) (Calculate	e the a	area d	of the	figure	above	2.		>			(02 ma	ırks)
25.	0 / 0 P	dwa dep .a. After late the	3 1110	111115	ilis ac	Count	nad a	n am	oun	t of Sh	s a sir . 477,	mple int 000.		ate of

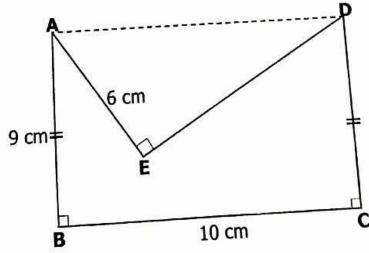
- 26 Below is a schedule showing the journey of a train travelling at a constant speed of Below is from station A to station C through station B. Study it carefully and answer the questions that follow.
 - 10:00 pm Train departs from station A.
 - 1:00 am Train arrives at station B.
 - 4:00 am Train departs from station B.
 - 6:00 am Train arrives at station C
 - (a) Find the time the train spent resting at station B.

(02 marks)

(b) Calculate the total distance from station A to station C.

(04 marks)

27. A part of a rectangular metal sheet was cut off, leaving the shape ABCDE shown below. Study the shape and use it to answer the questions that follow.



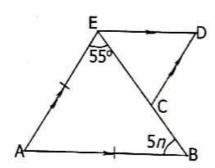
(a) Calculate the total distance around the remaining metal sheet above.

(02 marks)

(b) Work out the area of the above metal sheet.

(04 marks)

28. The diagram below, line AB is parallel to line ED, <ABC = 5n, line AE is parallel to line CD and angle AEC= 55°.



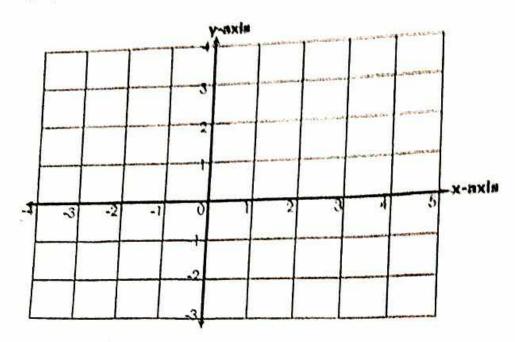
(a) Find the value of n in degrees.

(02 marks)

(b) Find the size of angle BCD.

(02 marks)

31. (a) Plot the points: U (1, 3), N (4, 0), E (1, 3) and B (0, 0) on the coordinate graph below.



- (b) Join U to N, N to E, E to B and B to U. Name the quadrilateral formed.
 (02 marks)
- 32. In a home, $\frac{2}{3}$ of the people are females and the rest are males. $\frac{1}{6}$ of the males and $\frac{1}{4}$ of the females are children. If there are 6 males,
 - (a) find the total number of people in the family.

(02 marks

(b) how many children are there?

(03 marks