

U.N.E.B ASSESSMENT

P.7 TERM ONE EXAMINATION

MATHEMATICS

NEW CURRICITIM

TIME Allowed: 2 Hours 30 Minutes.

	EMIS NO.		PERSON	AL NO.
IN	DEX NO.	T		
Na	me:	7.5		
Sig	gnature:			
En	nis No			
	strict name;			
Re	ead the following Instructions Carefully.	FOR E	XAMINE	R'S
1.	The paper has two sections: A and B	US	SE ONLY	11/20
2.	Section A, has 40 short answer questions (40 marks)			
3.	Section B has 15 questions (60 marks)	FOR	EXAMIN	ER'S
4.	Answer all questions. All answers to both sections		ISE ONL	
	A and B must be written in the space provided.	QN No.	MARK	SIGN

All answers must be written using a blue or black
 Ball point pen ink. Diagrams should be drawn in pencil.

 Unnecessary alteration of work may lead to loss of marks

7. Any handwriting that cannot be easily read may lead to loss of marks.

Do not fill anything in the box indicated for examiners' use only.

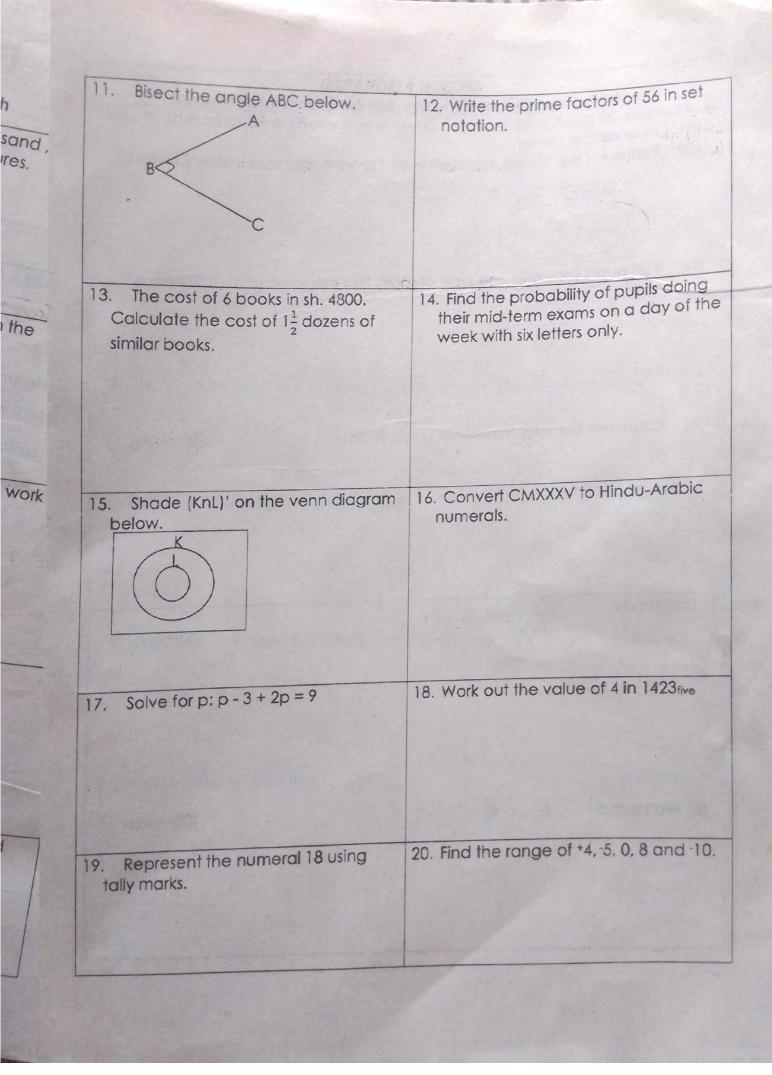
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FOR EXAMINER'S						
USE ONLY						
QN No.	MARK	SIGN				
1-5						
6-10						
11-15						
16-20						
21-22						
23-24						
25-26						
27-28						
29-30						
31-32	1000000					
TOTAL	THE REAL PROPERTY.	1000				

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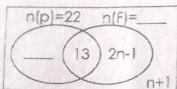


ires.

SECTION B (60MARKS)

Marks for each part of the question are indicated in brackets 21. In a class, 22 pupils took pepsi (P), (2n-1) took Fanta(F) only, 13 took both and

(a) Represent the above information on the venn diagram below (02marks)



If 20 pupils took only one type of soda, find the value of n (b)

(02marks)

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

(02marks)

(03marks)

(b) Workout:
$$5\frac{1}{4} - 5\frac{1}{2} \div 4\frac{2}{5}$$

(02marks)

TWE	A STATE OF THE STA
. Change 130 _{six} to base four.	(04marks)
b) Calculate the volume of the figure above	(03marks)
	(02marks)
a) Find the total length of all the edges.	
5m 2m	
4. The figure below is of a cuboid. Use it to answer question	ons that follow
4. The figure below is of a cuboid the	
	Line of the last o
23. Wataka covers a distance of 180km at a speed of 60km minutes she will save if she travels at 80km/hr.	(04mark
save it she travels at 80km/hr.	(04mark

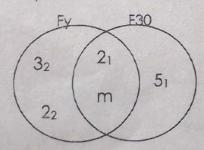
26. Mr. Amatu went to the market and bought the items as given in the table below.

(a) Complete the table (04marks)

Item	Quantity	Unit cost	Amount
Rice	3kg	Sh	Sh. 7200
Meat	1½ kg	Sh. 13,500	Sh
Cooking oil	½ litre	Sh@ litre	Sh
Total			Sh. 32,450
	The second second		

(b) Calculate his change if he went to shop with sh. 35,000. (02marks)

27. The venn diagram below show the prime factors of two numbers. Study and use it to answer questions that follow.



(a) Find the value of; (i) m (02marks)

(ii) y

(02marks)

(b) Calculate the H.C.F of y and 30.

(02marks)

28. (a) Using a sharp pencil, a ruler and a pair of compasses only rectangle EFGH where EF = HG= 8cm, ∠EFG = 90° and FH= 10°	y, construct a ocm. (04marks)
(b) Measure the length of side EH.	(01mark)
29 (a) Find the sum of the walks 10	
29. (a) Find the sum of the value of 2 and value of 5 in 23,568	(03marks)
(h) Pound off 20 70 to the negrest touth	
(b) Round off 39.78 to the nearest tenths.	(02marks)
	COMPANIES OF STREET
30. (a) A man divided his money among three sons and each go much money did he have?	ot sh. 550. How (02marks)
TWO	

	(02marks)
(b) Solve for p: $p^2 + 2 = 38$	
(b) solve to p. p.	
31. (a) P.7 candidates hope to have their visitation after $2\frac{3}{7}$ week	ks from now.
What day of the week will it be if today is Sunday.	(03marks)
	(02marks)
(b) Express 86 in finite 12.	
and the first and dates Set for DLE of which	h 24 passed in
32. In the year 2023, a total of 72 candidates Sat for PLE of which division 1, 30 passed in division 3 and the rest in division 2. Rep	present the above
information in a circle graph of radius 3.5cm.	(05marks)
	The second second
1	
END	

11.5	1011	1411	UMAKKING GUIDE END ME	TEN	M LEXAMINATIONS 202
	M	LEVEL	SOLUTION	Many	LEXAMINATIONS 2021
	1	na	SECTION A	MARK	COMMENTS
1		P2	83	R-	Fa. 22
7			-50	132	For 33.
			33	-	
	2.	P.4	Sixty four thousand = 64000	MI	For correct method
		11	nine hundred nine = + 909	1	For 64,909
			64,909	A	Fer 64, 101
	3	P.5	2P-5P+5P=2P+5P-5P	M,	For correct method
			= 7p-5p		
			= 2p	A	For 2p
1	4	P.C	0 1 5 1/2 20 55	A	
		1.6	Q人人友,从,30,55	BI	For formation of correct
			+ + + + + + + + + + + + + + + + + + +	R.	Pattern. For correct answer.
	5		Tenophal minutes	BI	Per Cerricer arsacer
	4		Twenty minutes to one o'clock	B	For 12:40 am
			=12:40 am	0	- and a Leo
1	,44	0	12:40am = 0040hrs	BI	For co40 hrs
1	0	13.7	$(200 \div 10) - (50 \div 10) = (200 - 50) \div 10$	M.	For correct methods
			= 150 ÷10		
-	-	-	= 15	A	For final correct answer
-	7	P.5	A	BI	For showing the lines of
		1.0			folding symmetry
			The state of the s	0	- and number of
1		1	The figure has one line of folding	B_{l}	lines of folding symmetry
-	-	-	Symmetry.		
	3	P.6	$\frac{2 \div 12 = 2 \times 5}{5} = \frac{5}{18}$	1011	For contect working steps
4		1	3 5 3 12 18	A	For final correct answer
-	4		his see		For any correct method
1	1	P.7	5		that leads to correct
1			. Sh.56,000		answer
1			7 parts = Sh. 56000 5 parts = Sh. 40,000	A	For Sh. 40,000
			1part = Sh. 56000	4	1-01-3-11-1-0
			7		
1	-		, , , , , , , , , , , , , , , , , , ,	, .	Fam Commert method
1	()	F-5	4 8 7 6 5 4 3 2 1 OH 1 1 3 4 1 5 6 H	MI	For correct method
			Descending order: 52,32,02,	A	For final correct answer
1	4/2		-3° and -7°	' '	
1	1	P.G		B	For Showing bisecting arcs
3					al visal in the line
	19 19 19		0.	B	For showing bisecting line
-	5		8		

	10	00	OCLUION	MINK	S COMMENTS
	12	P.6	256 F56=[2,2,2,7]	, M	For any correct meth
			228		that leads to correct
			2 7		cinswer
	The second second			A	For final correct answ
	13	P5	1 dozen = 12 6 1 book = sh.4800	1	Em coment
	-	-	12 de zens = 3 x 12	1	For correct working
		1	2 18 books = 4800 xx	3	Steps Shown V
	-		- Speaks	"	- C* - Con well call so
		0.7	6 books = Sh. 4800 13 dozens= 10 1:00	4 4	For final correct answer
	14	P. 1	Possible out comes = Csunday, Monday, Tuesday, Wednesday, Thursday,	B	For correct working
-			Friday, Saturday)	DI	Steps shown
1,000	100		Number of total outcomes = 1		
The state of	The state of		Expected out comes = (Sunday)		-m 3
1	2		Monday, Friday)	B,	For 3
			Nimber ap expected our corres - 5		
P. Contract	Š.		Probability = n (expected out comes) n (total out comes)		
A			Probability = 3		
			7		
	15	P. 7		n	to shading the
				152	For shading the correct region on the
	-				venn diagram.
-	1	-	(knL)'		0
197	16	P.6	CM = 900 XXX = 30	MI	For correct method
The same of		1	V =+ 5	A	For final correct consuler
1			CMXXXV = 935		
	7	P.	P+2P-3 = 9 3xP = 1/2	MI	For correct working
1	1	1	30-3 =9 3 3		Steps Shown
			31 31 3	A	For final correct value
	1		3P = 12 P = 4		of P.
	18	P.5	1423 Five	MI	For correct methed
Prober Cas				A	For 100
-	9	P. 4	18 = +++++++++++++++++++++++++++++++++++	B2	For final correct answer
1					
1	0	PC	Range = Highest Value - Lowest Value Range = 8 - 10	MI	For correct method show
1		1.0	Range = 8 - 10	Δ	For final and and and
A TOO	-		Range = 18	4	For final correct answer

O Proceedings	P.7 G) SECTION B & neb=2n+12 22-13 13 2n-1 13 13 2n-1		For correct representation in (R-F) For correct representation of nCF).
1000	b) $2n-1+9 = 20$ $2xn - 1/2$ 2n+8 = 20 $2x - 1/2$		For correct working steps Shown
	2n+8-8 = 20-8 n'=6		For final correct value of n.
	c) $\varepsilon = 22 + 2n - 1 + n + 1$ $\varepsilon = 22 + 2n + n$	BI	For correct method shown
	$\varepsilon = 22 + 3n$ $\varepsilon = 22 + (3xG)$ $\varepsilon = 22 + 18$ $\varepsilon = 40$ pupils		For final correct answer
2:	P.6 (a) (128) 75 75 160 18 X75	BI	For Changing to common fractions
	138 x 75 x 100 18	B	For introducing the
	10 100 30 = 30	B	For final correct answer
			1 4
1	b) 21 - [1] : 22] = 21-5	MI	for correct working steps
71177675676	$=21-[1]{2}\times \frac{5}{2}$ = 16	MI	For correct working steps Shown For final correct enswer
73	= 21 - 5 = 21 - 5 4 + 4 = 4	MI	For correct working steps Shown
23	$= \frac{21}{4} - \left[\frac{2}{2} \times \frac{2}{2}\right] = \frac{16}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{16}{4} = 4$ $= \frac{4}{4}$ $= \frac{16}{4} = 4$	MI, AI BI	For T= 3hours For T= 24hours
23	$= \frac{21}{4} - \left[\frac{16}{2}\right] = \frac{16}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{16}{4} = 4$ $= \frac{16}{4}$	MI, AI BI BI	For T=3hours For T=24hours For using the correct operation of subtraction
23		MI, AI BI BI	For T=3hours For T=24hours For using the correct operation of subtraction
23	$= \frac{21}{4} - \left(\frac{2}{2} \times \frac{2}{2}\right) = \frac{16}{44}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{16}{4} - \frac{4}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{21}{4} - \frac{5}{4}$ $= \frac{21}{4} - \frac{4}{4}$ $= \frac{21}{4} - \frac{4}$	MI, AI BI BI	For T=3hours For T=24hours For using the correct operation of subtraction For final correct Conswer
The state of the s	= 21 - 5 = 21 - 5 + 4 = 21 - 5 + 4 T = 2 + hours T = 2 + hours 2 + hours 2 + hours 2 + hours 2 + hours 2 + hours T = 2 + hours 2 + hours 2 + hours 2 + hours 2 + hours 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	MI, AI BI BI	For T=3hours For T=24hours For using the correct operation of subtraction

=4(m+8m+5m)		leads to correct answe
$=4\times25m$	A	For final correct answer
b) V = base area X H	BI	For Stating the correct
$V = (LXW) \times H$ $V = (12m \times 8m) \times 5m$	R	For correct substitution
V = 96m2 x5m	B	lot values in the formula
$V = 4.80 \text{ m}^3$ $130_{\text{SU}} = (1 \times 6 \times 6) + (3 \times 6) + (0 \times 1)$	BI	For final correct answer
= 36 + 18 + 0	B ₁	For correct expansion.
base number remainder	BI	For 54ten
4 54 //////////////////////////////////	B ₁	For correct division
4 3 1	B	For 312 four
0 3.		
= 312 four		
22 P.6 a)	B	For Sh. 2,400 .
Item Quantity Unit Cost Amount Dice 3kg sh. 2400 sh. 7200		For Sh. 20, 250
meter 12kg Sh 13500 Sh 20,250 cooking oil 3 litre Sh 10,000 Sh 5,000		
Rice: > wit cost = 7200	B	For Sh. 5,000
meat => amount = 3 x 13500	B,	For sh:10,000
= \$h.20,250 Cooking oil > amount = 8h.32,450 - (8h.20,250+8h.7200 = 8h.32,450 - 27450 = 8h.5,000 Cooking oil > Unit cost Cooking oil > Unit cost		
= 5000 = 2 = Sh.10,000		

02550	A	For correct answer
7 P.6 (a)(1) F30=(m,2,5) m=3,	M	For correct working
$m_{X2X5} = 30$ $m_{X1X} = 30$		Steps shown
$\frac{m \times 10^{6}}{10^{6}} = \frac{30^{6}}{10^{6}}$		
m=3	M	10000
(11) Fy=(21,22,31,32)	MI	
Y = 2x2x3x3		For final correct
N = 36	M	cinsuler
b) HCF = FynF30	MI	For correct method shown
$F_{y} \cap F_{30} = (21, 3, 1)$ HCF = 2x3		
HCF = 6	AT	For final currect answer
28 P.6 a) Sketch rectangle	S	For-drawing correct sketch
The committee of the co	101	sketch
E gen		
E 8cm	L	For correct leigth of
		1
Accurate rectangle		
H/G	CI	For constructing right angle at F
		right angle at F
	1	For correct length of
		line FH
1 tocm		
	Man	
8cm		
b) EH = 6cm	0	For EH = 6cm
		CI EII - CCIII
7 P.5 9 17 17 14 14 T O 2 3 5 6 8		for correct value of5
5x100 = 500	BI F	for correct value of 2
2x10000=120000 20500	B. F	for final correct sum
29,500	0	f 20,500

-	Secretary Management of the second of the se	01.19	
	b) TO: The Ham TO: The 39.7	M	method that leads correct answer
	1.39.78 - 39.8	A	For correct answer
30 P.C	$\frac{m}{3} = 550$	Mi	For correct working shown
	3x = 550x3		
	'm = 1650 He had Sh.1,650	A	For final correct answer
S Com	b) $p^2 + 2 - 2 = 38 - 2$ $p^2 = 36$	MI	For correct working steps shown
31 87	VPXP = V6XG P = 6 a) Iweek = 7days	M	For correct value of p.
	23 weeks = 17 x7	B	Fer 17 days
	= 17 days		
	Mon The Wed Thur Fri Sat Sun 2 3 4 5 6 0	B	For correct working Steps shown
	Day + days = - (finite 7) Sun + 17 = - (finite 7) C + 17 = - (finite 7)	1 9 1	For final correct
	17 = - (finite 7) 17:7 = 2 rem 3		CU 500E1
	17 = 3 (finite 7)		
	= Wednesiday		
	The day of the week will be Wednesday		
	660	2 0	ethed that leads to
		AIF	or correct answer
32 P.6	Division 1 > 24 x 360° = 120°	BIF	tor division 1 = 120°
			C'

