

UNEB BLUE PRINT 2024 RE-MODERATED SET FOUR

MATHEMATICS

Time allowed: 2 Hours 15 Minutes

Candidat	e' Name		 	 	
Candida	te's Sign	ature:	 	 	
District	Name:		 	 	

Read the following instructions carefully:

Random No.

- 1. This paper has two sections: A and B.
- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- 4. Answer all questions . all answers to both sections A and B must be written in the spaces provided.
- 5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in a pencil.
- 6. Unnecessary changes in your work may lead to loss of marks.
- 7. Any handwriting that cannot be easily read may lead to loss of marks.
- 8.Do not fill anything in the table indicated:
 "FOR EXAMINERS' USE ONLY" and
 boxes inside the question paper.

	ONLY	S' USE
Qn. No	MARKS	EXR'S No.
1 - 10		
11 - 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

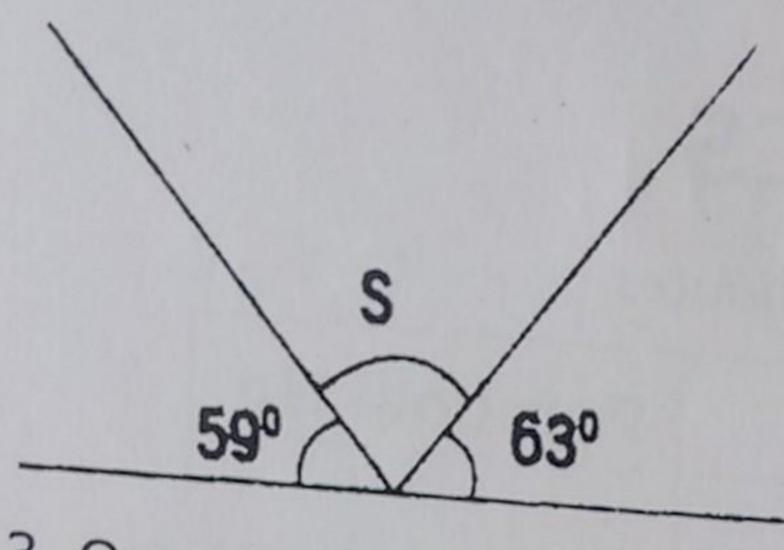
Personal No.

Turn Over

SECTION A (40 MARKS)

1. Add: 424 +4 46

2. Find the size of angle marked S in the figure below.



$$S + 59^{\circ} + 63^{\circ} = 180^{\circ}$$

 $S + 122^{\circ} = 180^{\circ}$
 $S + 122^{\circ} - 122^{\circ} = 180^{\circ}$

3. Opendi walked 2.3km from his home to his daughter's house. Express th 1km = 1000m

4. Simplify: 5m - (2+m) 5 m - 2-m

5m-m-2

5. Multiply:
$$106 \times 4$$
 $m-m-2$
 $408 + 24$
 424
 424

6. Solve: 4p - 8 = 16

$$\frac{1}{2}x_{4} = \frac{1}{2}x_{4}$$

8. Change 5 base ten to binary.

9. What is the complementary angle of 780?

10. In a class of 60 pupils, 12 are boys. Express the number of boys as percentage number of the whole class.

11. If set $P = \{1,2,3,4,5,\}$ and $PUQ = \{1,2,3,4,5,6,7,8\}$ Find the numb elements in set Q only.

elements in set Q only.

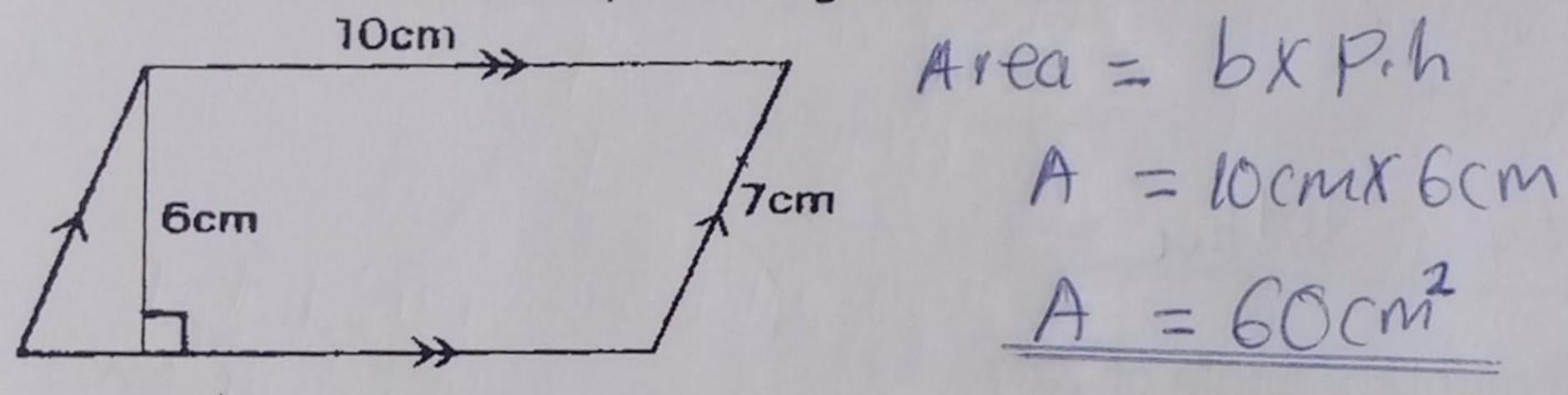
$$\varphi \circ n \cdot 14 = \frac{26}{7}, \frac{7}{8} \cdot \frac{8}{4}$$

12. If: 6x1x = 5 find the value of x

13. Find the Lowest Common Multiple of 8 and 20.

2/8/20	LCM = (2x2x2)x5
2 4 10	
5/1/5/	LCM = 8x5
1111	LCM = 40

14. Find the area of the parallelogram drawn below.

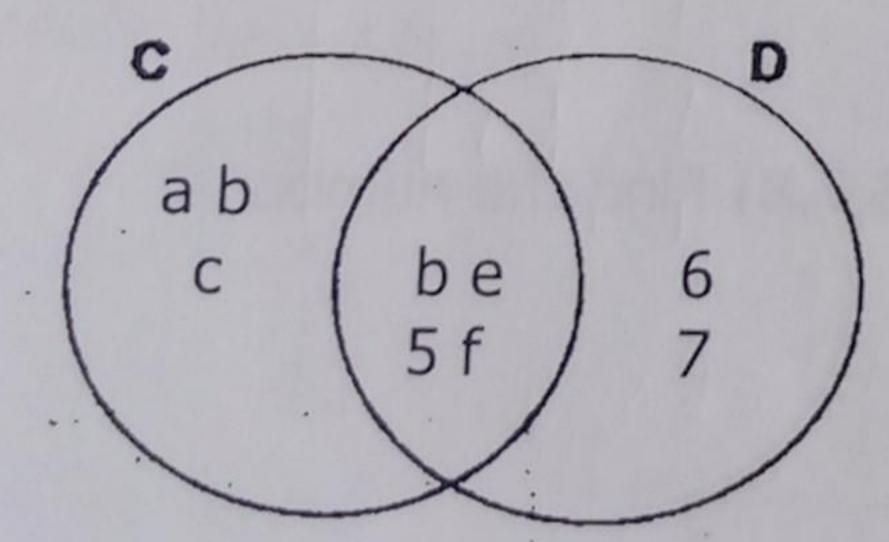


15. Rapha bought 4 exercise books at Shs8000. How much would he pay for 8

4 books costs sh.8,000 1 8 books cost sh.16,000 1 books costs sh.8,000 similar exercise books?

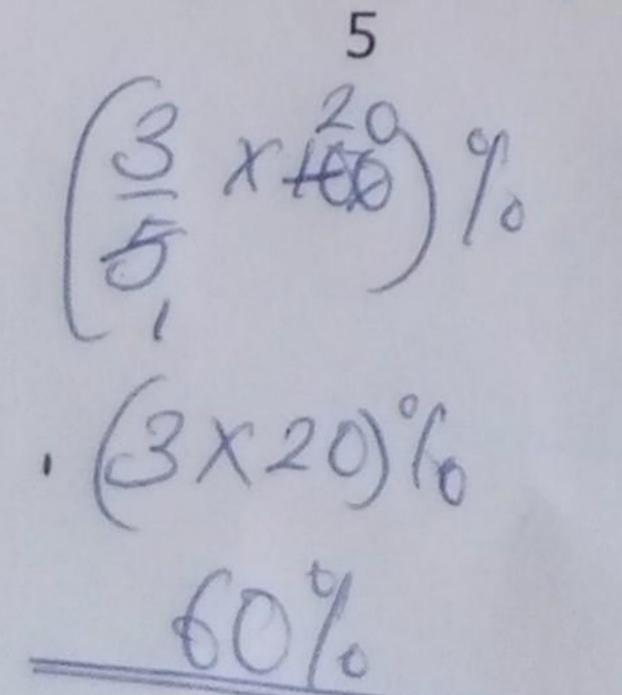
1 book costs sh.2,000

16. Use the Venn diagram below to find n(CnD)



Cn B= 26, e, 5, f 6

17. Express 3 in percentage.



18. Write 444,350 in words.

TH Units Four hundred forty-four thousand, three hundred fifty

19. Mawa bought a cow at shs600,000 then sold it at Shs1,000,000. What is his profit?

P = S.P - B.P

Sh. 800,000

-Sh. 600,000

20. The average age of 4 boys is 12 years. If one of them is 10 years old. What is the average of the other three boys?

SECTION B (60 Mks)

21. Iganga town's population has been declining slowly by slowly. In 2023 there were 500,000 residents, and there were only 467,000 residents in 2024. Work out the percentage decline of the population. (4mks)

Decrease
$$\rightarrow 500,000$$

$$-467,000$$

$$-33,000$$
% decline = $(33,000)$ x $($

22. Jessy designed his flower garden in the form of a semi-circle below. Its diameter is 21 metres. How many trees can be planted round the garden at an

interval of 180cm? (4mks)

$$P = \left(\frac{1}{2}XIIS\right) + S$$

$$P = \left(\frac{1}{2}X\frac{21}{2}X\frac{21}{2}m\right) + 2Im$$

$$P = 33m + 2Im$$

(2mks)

23.a)The sum of two numbers is 10. Their difference is 4. Find the two numbers.

Let P' rep one of the noss

2nd no -0 10-P

$$8 = 2p$$
 $10-p-P=4$
 $10-2P=4$
 $10-2P=4$
 $10-4=2P$
 $2nd no = 10-3$
 $10-4=2P$
 $2nd no = 10-3$
 $2nd no = 10-3$
 $3nd no = 10-3 = 7$
 $3nd no = 10-3 = 7$

b). Workout the lowest common Multiple of the two numbers.

21 metres

24. In Sankara Junior school, there were 900 learners in year one, 520 learners in year 2 and 380 learners in year 3. Draw a circle graph to represent the number

Year one	Jear 3
900 x360°	380 X360°
1800	1
Year 2	760
520 X360°	
25 Study the	

25. Study the extract of Irene's Bank Deposit slip below. Complete the table.

Denomination	Number of notes or coins	Amount
Ug sh. 50,000	4 notes	Ugsh. 200,000
Ug sh. 20,000	15 notes	Ug sh. 300,000
45h. 5,000	3 notes	Ug. Sh. 15,000
Ug. Sh. 500	20 coins	Uash. 10,000

Amount =
$$16sh \cdot 50000 \times 4$$
 | Anought = $16sh \cdot 500 \times 20$
 $16sh \cdot 200,000$ | Amought = $16sh \cdot 500 \times 20$
 $16sh \cdot 10,000$ | $16sh \cdot 10,0$

Ugsh. 5,000

b) If Irene's account had Ha Sh 102 000 has
b) If Irene's account had Ug.Sh.103, 900 before deposit. Find the new amount on her bank account. (2mks)
Total amount - 5h 300,000 New amount
0 1 1 00 1 000 0 2 0,000
ch. 10,000 Higsh. 103,900
Sh.+ 15,000 Ugsh.628,900
Sh. 525000 July
26a) Which base five numerals is represented to
2 x 10 five x 10 five + 4 x 1 five groups of five- five, 4 d
Tive five!
200 five + 4 fixe 1 204 five
200
t 4 five
b) Find the value of 4 in the number 47.777
To t = 1 (1mk)
49.77h
Htens
TICHS

c) How many pens are in 12.5 dozens? (2mks)

1 dozen = 12 pens
12.5 dozens =
$$(2mks)$$

12.5 dozens = (25×6) pens (25×6)
 $(2mks)$
12.5 dozens = (25×6) pens (25×6)
 (25×6)

27a) The workers at Tubone Maize Millers Ltd have 3 sacks of maize flour weight 90kg, 120kg and 150kg respectively. What is the mass of the biggest pack that to be used so that no flour remains in any of the sacks? (3mks)

GCF OF 90kg, 120kg and 150kg

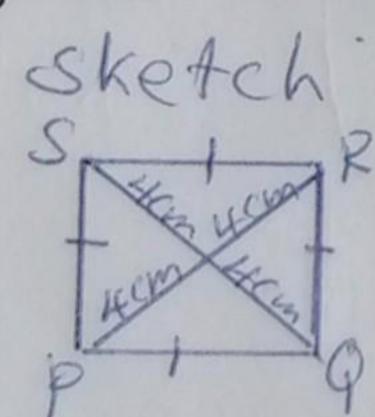
2 90 120 150 [2x3x5
3 45 60 75]

CX5

b) The L.C.M of two numbers is 72. Find the second number if one of the number is 8 and GCF is 12. (2mks)

2nd no = LCM XGCF = 72X12 - 72X12

28a) Using a pair of compasses and a ruler, construct a square PQRS with diagonal PR =8cm. (5mks)



b) Measure the length of PQ in centimetres.

(1mk)

29. The surface area of the figure below is 460cm 10cm and 5cm respectively. Find the length of the prism.

2. Its width and height are

(5mks)

$$5cm$$

$$2Lw+2Lh+2wh=7.5.A$$

$$2xLxi0+2xLx5+2xi0x5=460$$

$$20L+10L+100=460$$

$$30L+100=460$$

$$1301+100 = 100 = 460-100$$

$$301 = 360$$

$$301 = 360$$

$$30$$

$$4 = 360$$

$$30$$

$$4 = 12 cm$$

$$4 = 12 cm$$

30. a) The interior angle sum of a regular polygon is 1260 can be formed from the polygon?

^o How many triangles

$$n-2+2=7+2$$
 $n=95ides$

No 9 triangles = $n-2$
 $9-2$
 $7 triangles$

b) Calculate the size of each exterior angle.

(3mks)

31.a) Nahiyah's is 20 year older than his son. In 10 years. as old as the son. How old is the son?

Her father will be twice (3mks)

Let		son's age
1	Son	Nahiyah
Now	M	m+20
In 10'413	m+10	mt 20110

2(m+10) = m+20+10 The son is loyears old. 2m+20 = m+30 2m-m = 35-20 m = 10 years b) Find the father's age in 10 years.

(2mks)

m+20+10 10+20+10

32. Mwesigwa saved money in Finance Trust Bank. He was offered shs1,500 monthly as interest. If he deposited sh. 2,300,500. How much did he have on

his account after 5 years? (5mks)

lyear = 12months

5 years = (12x5) months

60 months

70tal interest, Sh. 1,500x60 Sh. 90,000 Total Amount = Pt I 5h.2,380,580 8h.+90,000 8h.2,390,500

END