THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

THE *REAL* VERIFIED UNEB BLUE PRINT ITEMS FINAL WRAP UP
FOR PRIMARY LEAVING EXAMINATIONS
2023
MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Index no:

Random No					Personal No		

Candidate's name: ……………………………………………………………………

Candidate's signature: ……………………………………………………………………

School: ……………………………………………………………………

District: ……………………………………………………………………

Read the following instructions carefully

1. This paper is made up of 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 in both sections **A** and **B**.
5. All answers **MUST** be written in the space provided In blue or black ball point pens or ink. All diagrams Should be in pencil.
6. Unnecessary crossing of answers will lead to loss of Marks.
7. Poor hand writing which cannot be easily read, May lead to loss of marks.

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

The Real Private Teachers' Voice Examinations Board 2023.

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SECTION A (40 MARKS)

Answer **all** questions in this section

## Question **1** to **20** carry two marks each.

1. Workout 23 + 47.

2. Write 60104 in words

3. Express 17_{nine} into denary system.

4. After covering $\frac{2}{3}$ of the journey, a motorist still had 40km to cover. How long was the journey

5. Express the sum of CDLXX and CCLIII into Hindu Arabic numerals.

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6. Simplify ⁻9 + ⁻15 using mind maps.

7. Work out the product of the values of 4 in 648.9 and the place value of 9 in 7.09.

8. Manisha's farm produces 5 grosses of eggs daily. If eggs are sold at s 12,000 per tray. How much money does she collect per week?

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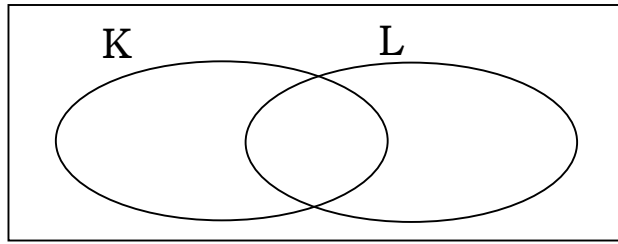
9. **Find the angle marked x**

150^0

x^0

55^0
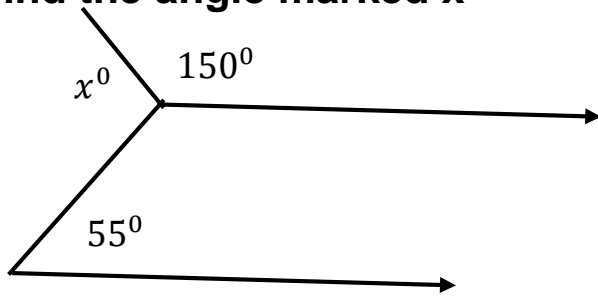
10. Construct an angle of 157.5^0 in the space below

11. Solve for n: $\frac{3}{4}x - 5 > 1$

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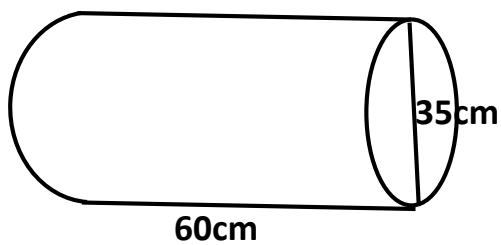
12. In the diagram below, don't shade the complement of (K — L).

13. Subtract 1 − 5 = ___ (finite 6)

14. Find the total surface area of the figure below.

35cm

60cm

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15. Peter started his journey from Kampala at 25 minutes past 10 o'clock in the evening and arrived at Arua at a quarter to 9 o'clock in the morning. How long was the journey?

16. Owen sold a bull at s.1,200,000 and made profit of 20%. How much money had he pay for the bull?

17. The average weight of 3 boxes is 80kg. If 2 of them weighs 90kg and 85kg respectively. Find the weight of the third box.

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18. Find the value of the angle marked p.

47⁰ 30⁰ 72⁰ p⁰
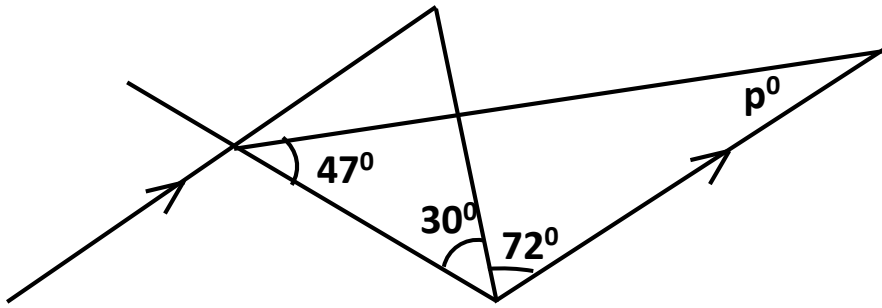
19. When a number is increased by 20% and decreased by 30%, it becomes 1680. Find the number increased.

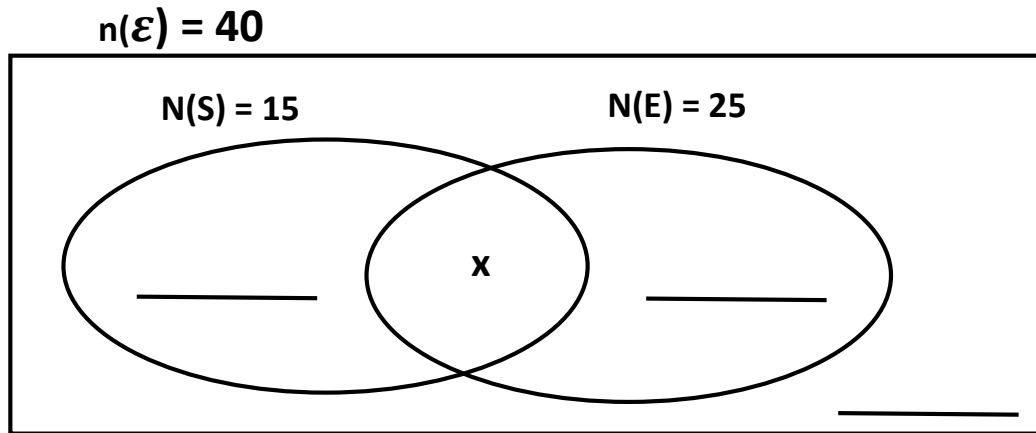ENGAGE.   INSPIRE .   THRIVE.

SECTION B

Answer all questions in this section

Marks for each question are indicated in brackets

20. In a class of 40 pupils, all of them like Mathematics (M), 7 pupils like Mathematics only, 15 like both Science and Mathematics while 25 like both English and Mathematics.

a. Complete the Venn diagram below

$n(\varepsilon) = 40$

N(S) = 15   N(E) = 25

X

b. How many pupils like only two subjects?

22. a). The mean of scores 7, 10, 6, 4, and x is 8. Find the value of x

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b). Work out the median score.

c). Find the probability that a score picked at random is below the mean.

23. Given the equation of the line k is   y = x + 2.

Complete the table below.

X	0	1	2	____	____	-4
Y	2	___	4	0	-1	____

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24. A rectangular dough measuring 60cm by 50cm is used to make a circular pancake of diameter 7cm.

50cm

7cm

60cm
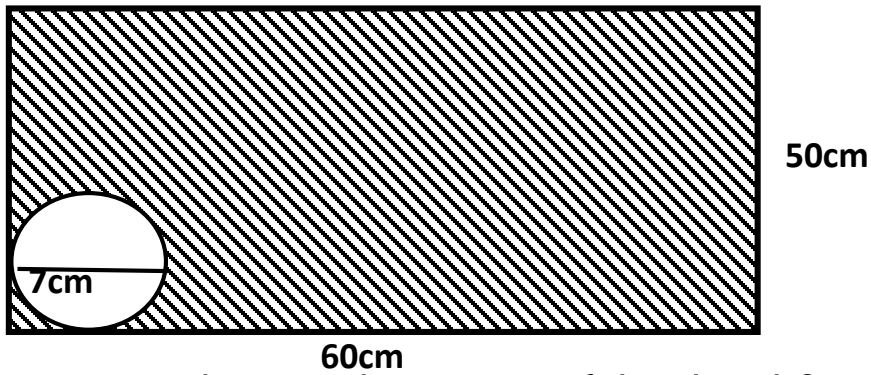
a). How many pancakes can be cut out of the dough?

b). Calculate the area of the dough that remains after cutting out the pancakes.

25. a). Solve the equation: $\dfrac{2(1+r)}{3} = \dfrac{2(r-2)}{2}$

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(b). Given that a = ⁻2, b = 3 and c = 4. Find the value of $b(a^2 + c)$

26. The table below shows the exchange rates at which LD Forex Bureau sells and buys foreign currency. Study it carefully and answer the questions that follow.

Currency	Buying rate	Selling rate
Kenya shillings (Ksh.)	Ugsh. 35	Ugsh. 36
US dollar (US$)	Ugsh. 3600	Ugsh. 3700
British Pound sterling (£)	Ugsh 4000	Ugsh. 4200

(a). Precious had Ugsh. 14,400,000 which she exchanged for Kenya shillings. How much money in Kenya shillings did he get?

(b). A tourist had US $ 1,400 which he exchanged for British pound sterling (£). How much money did he get from the bank in Pound Sterling?

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27. A father is 18 years older than his son. In 10years' time, the father's age will be twice as old as the son.

a). What is the Father's present age?

b). What will be the son's age in 10years' time?

28. In a P7 class $\frac{1}{3}$ of the pupils were absent on Friday and 80% of the pupils were present on Saturday, If 10 more pupils were absent on Friday than on Saturday, how many pupils were in the class all together?

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29. a) Convert 79 to Seximal base

(b). Find the value of m: $2m^2 = 112_{five}$

30. Ssemanda deposited some in a bank which offers a simple interest rate of 18% per annum for 9 months. If he received sh. 681000:

a). Calculate the amount of money Ssemanda deposited.
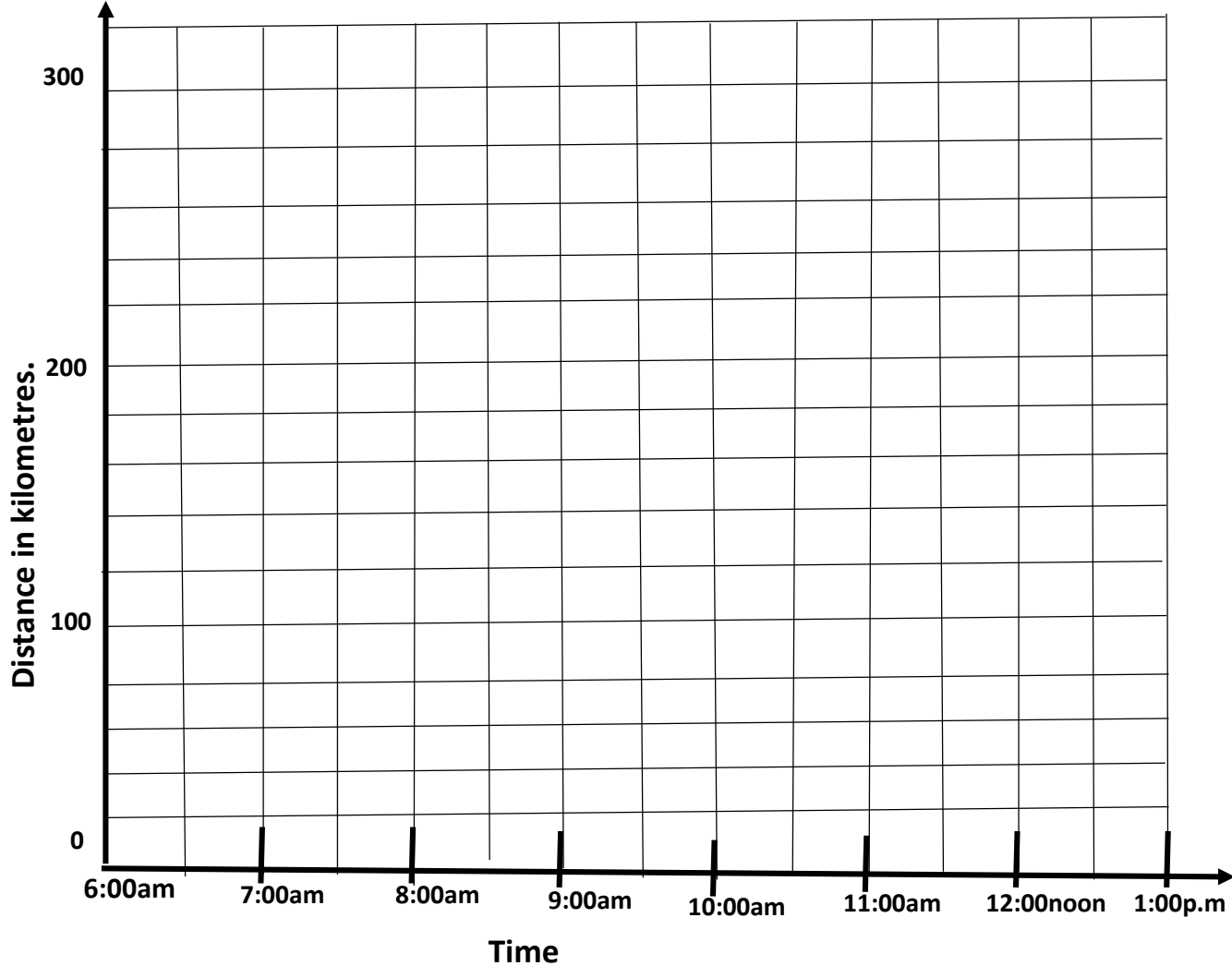
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(b). Workout the interest he received after 9 months.

31. Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle ABC in which angle **ABC** = 60^0, **BC** = 7cm, and angle **BAC** = 90^0. Drop a perpendicular bisector from A to meet line BC at X.

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32. **A** bus left Kampala for Mbarara at 6:00am travelling at 80km per hour for 2 hours before stopping for a rest. After resting for half an hour, the bus left for Mbarara at a speed of 100km/hr for 1 hour before reaching Mbarara. The bus spent $1\frac{1}{2} hrs$ before leaving and reached Kampala at 1:00pm without stopping on the way.

a. Represent this information on the graph below

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b. Workout the average speed for the entire journey to and from.

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