THE E-LEARN EXAMINATIONS BOARD

B.O.T ONE EXAMINATIONS 2023

PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Pupil's Name: .....

Pupil's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **13** printed pages altogether.
3. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read
5. Answer all questions. All the working for both sections A and B must be shown in the spaces provide.
   easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper

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

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SECTION A: 40 MARKS

*Answer **all** questions in this section*

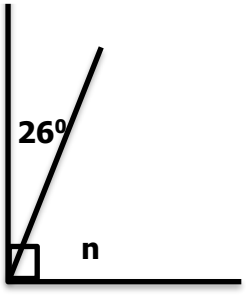
1. Subtract 33 from 93.

2. Write 2054 in Roman Numerals.

3. Find the number of elements in set **K** with 63 proper subsets.

4. Work out: $^{+}5 - {}^{-}7$

5. Find the size of angle marked **n** in the figure below.



6. Express 35m/s as Km/hr

7. Find the sum of the next two number in the sequence below;

   7, 11, 20, 36, 61____ , ___

8. Aliganyira scored 8, 9, W, 7 and 8 in five consecutive tests.

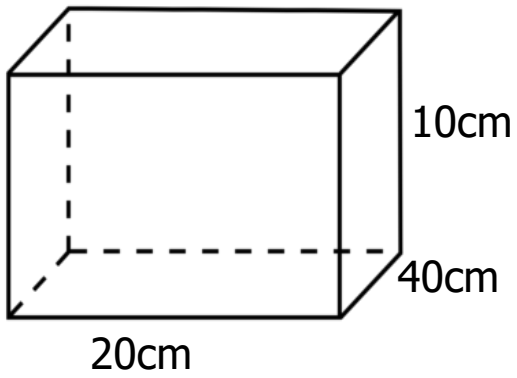
   Find the value of W if his average mark was 7.

9. Given that g = $^{-}4$ and h = 5, find the value of 2g + 2h.

10. Convert 203_{five} to binary base.

Turn Over

11. Calculate capacity of the figure below.



12. Using a ruler, a pencil and a pair of compasses, construct an angle of 75^0.

13. Simplify: $\frac{1}{2} + \frac{1}{4}$

14. Write **"twenty thousand two"** in figures.

15. A car covered a distance of 240km after travelling for 3 hours. Calculate its average speed.

16. The area of the rectangle is 60cm^2. Find its width **W** if the length is 10cm.

17. Opolot bought 1500gm of sugar at shs. 4200 a kg. How much money did she pay for sugar?

18. How many days are in the first 5 months of a leap year.

19. Increase 72 apples by 25%

20. How many right angles are in a decagon?

Turn Over

SECTION B: 60 MARKS

*Answer **all** questions in this section.*

21. A wheat factory packs 2kg packets of wheat in a carton of 12 packets. If it packs 84 cartons a day.

a) How many packets does it produce daily? *(3 marks)*

b) If each packet is sold at sh. 4500 factory price, how much does it earn weekly? *(2 marks)*

22. Akiiki scored the following marks in a series of tests.

70 , 60 , 40 , 60 , 80 , 50

a) How many tests did he do? *(2 marks)*

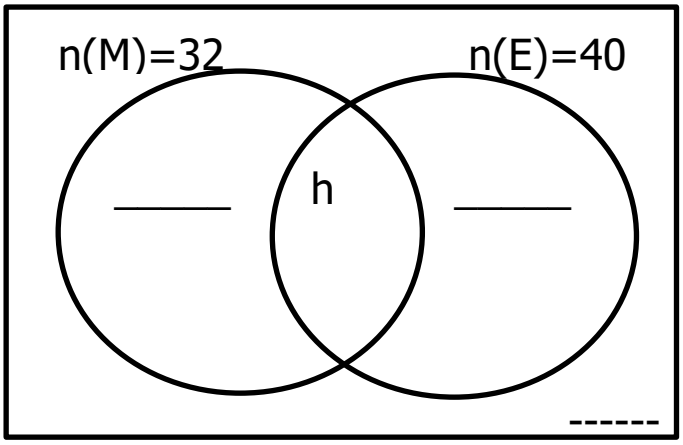
b) Work out his range. *(2 marks)*

d) Calculate his average mark. *(2 mark)*

23. In a class of 60 pupils, 32 like Maths (M) and 40 pupils like English (E) while h pupils like both, (h-3) like other subjects instead of English and mathematics

a) Represent the above information on the Venn diagram below.

n(Σ)=60



(02 marks)

b) How many pupils like both subjects? *(2 marks)*

Turn Over

c) How many pupils like only one subject? *(1 marks)*

24. In a class of 120 pupils, $\frac{2}{5}$ of them are girls and the rest are boys.

a) Find the fraction for boys. *(02 marks)*

b) How many girls are in that class *(02 marks)*

c) How many more boys than girls are in the class? *(01 mark)*



25. a) Solve for x: $\frac{7x-1}{5} = 4$ *(03 marks)*

b) Simplify: 2(h + 3) – 4(h-6) *(03 marks)*

26. A bus left Kampala for Mbale at 10:52 am travelling at an average speed of 80km/hr for $2\frac{1}{2}$ hrs and reached Iganga town for the first stop over. It spent 30 minutes in Iganga and then continued with the journey driving at 100km/hr for $1\frac{1}{2}$ hrs to reach Mbale

a) How long is it from Kampala to Iganga? *(03 marks)*

b) Calculate the average speed for the whole journey. *(02 marks)*

27. a) Construct a triangle **DOG** such that angle **DOG** = 150^0, <**DGO** = 60^0 and line **OG** = 8 cm using a ruler, a pencil and a pair of compasses only. *(04 marks)*

Turn Over

b) Drop a perpendicular line from **D** to cross line **OG** at **K** *(1 mark)*

c) Measure length **OK**=……. *(1 mark)*

28. Namudde went to the market with shs. 30,000 and bought the following items.

3 kg of maize flour at shs. 2800 per kg.

1½ kg of meat at shs. 9000 per kg.

3 litres of milk for shs.9000.

a) Calculate her total expenditure. *(02 marks)*

b) What was her change? *(01 mark)*



29. Given the number 409032, expand it using Powers of ten.

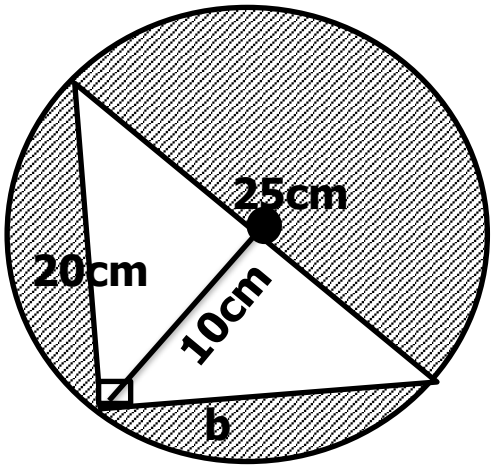
(02 marks)

a) Find the difference of the value of 9 and place value of 3 in the above number. *(01 mark)*

c) Work out: $3\ 2\ 4_{five}$ *(02 marks)*

$+\ 4\ 2_{five}$

30. The radius of the circular card below is 10cm. a triangular shape is cut out as shown below.



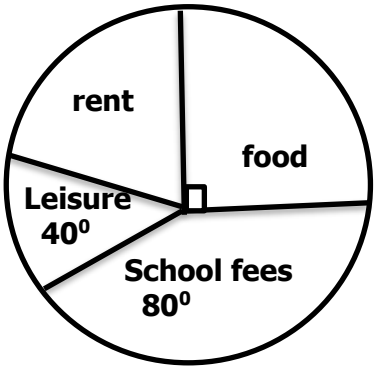
Turn Over

a) Find the area of the triangle. *(02 marks)*

b) Work out the area of the circle using $\pi=\frac{22}{7}$? *(02 marks)*

c) Calculate the area of the shaded part. *(01 mark)*

31. a) The pie chart below shows how Mbape spends his monthly income.

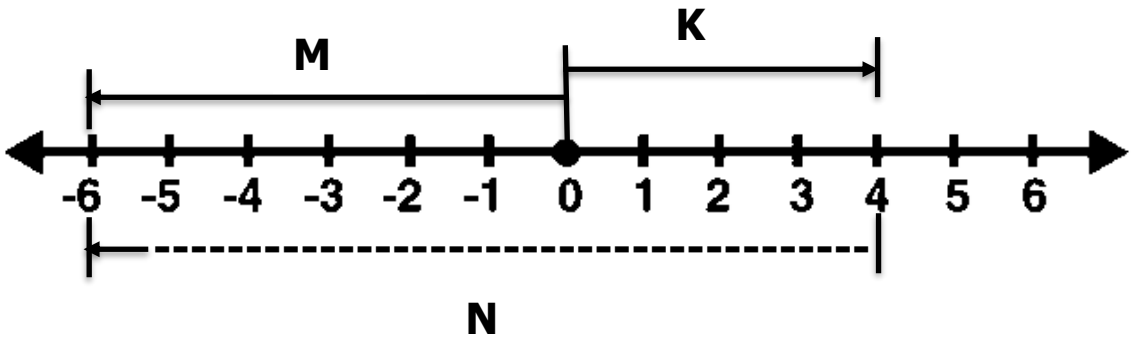


b) If he spend sh.126,000, how much is spent on rent? *(02 marks)*

b) How much does he spend on school fees? *(01 marks)*

c) Express the sector for food as a percentage. *(02 marks)*

32. Use a number line below to solve the questions that follow.



a) State the value of

(i) **N** = _____ (ii) **K** = _____ (iii) **M** = _____ *(01 mark @)*

b) Write the Mathematical statement represented above.

(01 mark)

END