



SUREKEY EXAMINATIONS BOARD  
PRIMARY SEVEN PRE-REGISTRATION SET EXAMINATION

2024

MATHEMATICS

*Time Allowed: 2 hours 30 minutes*

Index No.	EMIS No.					Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **20** questions and Section **B** has **12** questions. The paper has **15 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** 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.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. 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		

## SECTION A: 40 MARKS

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

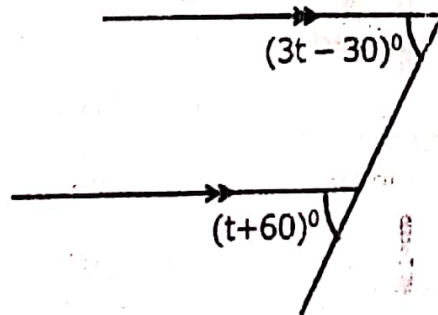
1. Workout:  $16 + 254$ .

2. Write CXLIV in Hindu Arabic numeral system.

3. Find the next two terms in the sequence below.

2, 4, 7, 12, 19, ....., .....

4. In the figure below, find the value of  $t$  in degrees.



5. Workout the product of 2.4 and 0.6.

6. Calculate the circumference of a car tyre of diameter 56cm. (Use  $\pi$  as  $\frac{22}{7}$ )

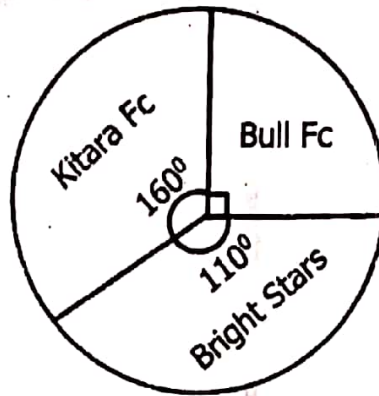


7. Given that  $2^{3m} \div 2^m = 2^8$ , find the value of  $m$ .



8. A school bursar issued receipts from the receipt book numbered consecutively from 294 to 305 to pupils. How many pupils were issued receipts that day?
9. There are 20 more boys than girls in a class. 40 of the pupils in the class are girls. Find the probability of choosing a boy to be class monitor from the class.

10. The Pie-Chart below shows how three teams have collected points in the Uganda Premier League.



If Bright Stars has 33 points, calculate the total number of points collected by the three teams.



11. Write  $(6 \times 10^2) + (4 \times 10^{-2})$  in short.

12. By selling 15 eggs at Sh.6,000, a trader realizes a loss of Sh.1,500.  
At how much did he buy each egg?



13.

Work out:  $(3.6 \times 175) + (25 \times 3.6)$



Start with the number opposite the first

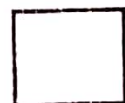
14.

Three prisoners can slash a compound in 20 minutes. How long will five prisoners take to slash the compound while working at the same rate?

$$\frac{1}{3} = \frac{2}{5} \quad \text{cross multiply}$$

15.

The mass of a packet of yoghurt is  $\frac{1}{20} \text{ kg}$ . Convert the mass to grams.



16.

Everyday, Jonathan misses the first 30 minutes of the morning lessons due to late coming. How many hours does he miss in six days?

2. Find the number of hours he misses in 6 days

Plot a line graph on the grid below

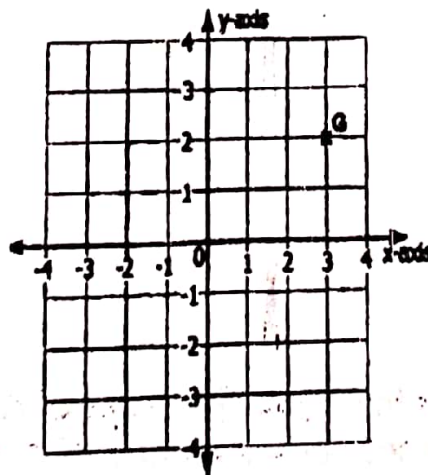
17. The table below shows marks scored by 5 pupils in an English test.

Marks	60	20
No. of pupils	2	3

Find the average score of the test

18. Workout:  $\frac{3}{4} + \frac{1}{5}$

19. Study the coordinate graph below and use it to answer the questions that follow.



- (a) Write the coordinates of point G.
- (b) Plot the point T(-2,0) on the coordinate graph.

20. Muslims around the world started fasting on Monday 11<sup>th</sup> March, 2024 and the fasting lasted for 29 days. On which day and date did the fasting end?



**SECTION B: 60 MARKS**

Answer **all** questions in this section

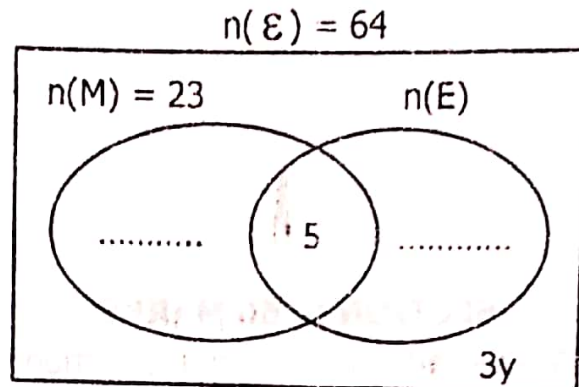
Marks for each question are indicated in brackets.

21. (a) Given that  $43_t = 23$ , find the unknown base represented by letter t. (03 Marks)

- (b) Express  $27_{\text{ten}}$  as a binary base. (02 Marks)

22. In a class of 64 pupils, 23 pupils like Mathematics (M), 20 like only English (E), 5 pupils like both subjects why 3y pupils like neither Mathematics nor English.

- (a) Complete the Venn diagram below using the above information. (02 Marks)



- (b) Find the value of y. (02 Marks)

- (c) Determine the number of pupils in the class who do not like Mathematics. (02 Marks)



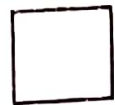


23. Mariana was given Sh.90,000 to buy scholastic materials indicated on the shopping list below.

- $1\frac{1}{2}$  dozen of books at Sh. 4,000 a book.
- 8 pens at Sh. 500 each pen.
- 5 pencils at Sh. 500 each pencil.
- 1 long ruler at Sh. 1,000 and a Geometry set.

After buying all the items, she was given a change of Sh.6,500, what was the cost price of a Geometry set? (06 Marks)

24. Three children shared 25 sweets. Angel got 4 sweets more than Kyeyune and Muhammad got 6 sweets less than Kyeyune. Calculate the number of sweets each child got. (05 Marks)



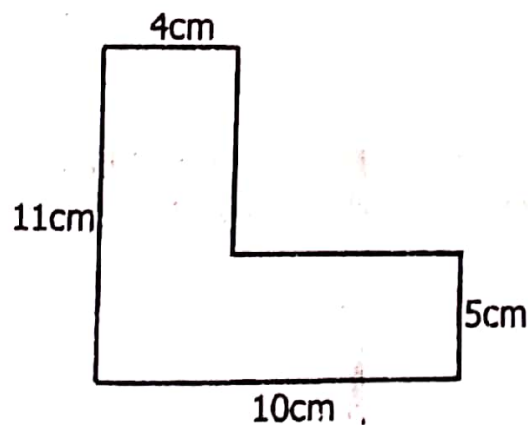
25. (a) Workout:  $64.3 + 7.1 + 0.45$

(02 Marks)

- (b) On an animal farm,  $\frac{3}{7}$  of the cattle are bulls and the rest are cows. The farm has 280 cattle. How many more cows than bulls are on the farm?

(03 Marks)

26. Study the figure below and use it to answer the questions that follow.



- (a) Find the total distance around the figure.

(02 Marks)

- (b) Workout the total area covered by the figure above. (03 Marks)



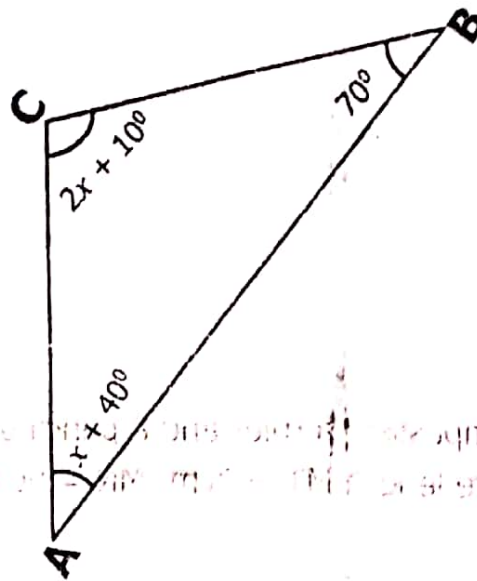
27. (a) Using a pair of compasses, a ruler and a pencil only, construct a triangle MTN where length  $MT = 7\text{cm}$ ,  $MN = 5\text{cm}$  and angle  $NMT = 60^\circ$ . (04 Marks)

- (b) Measure angle MTN = ..... $^\circ$ .

(01 Mark)

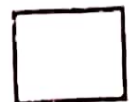
**Turn Over**

28. Study triangle ABC below and use it to answer the questions that follow.



- (a) Find the value of  $x$  in degrees. (03 Marks)

- (b) Find the size of the angle at point C. (02 Marks)



29.

Workout:		Hrs	Min
		5	28
		+ 3	54
		<hr/>	

(02 Marks)

- (b) A motorcyclist covered 25km in  $1\frac{1}{2}$  hour before getting a flat tyre which took him 30 minutes to fix. He then covered the remaining 17km in one hour. Calculate the motorcyclist's average speed for the whole journey. (03 Marks)

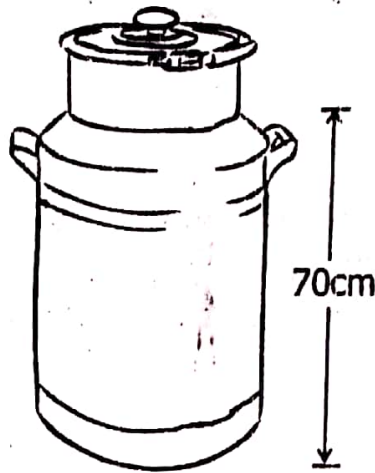
30.

- (a) By listing down factors, workout the Greatest Common Divisor (GCD) of 18 and 24. (02 Marks)

- (b) Without carrying out actual division, show which of the numbers 641 and 642 is directly divisible by 3. (02 Marks)



31. The milk can below has a base area of  $154\text{cm}^2$ . Using  $\pi$  as  $\frac{22}{7}$  answer the questions that follow.



- (a) Find the radius of its base.

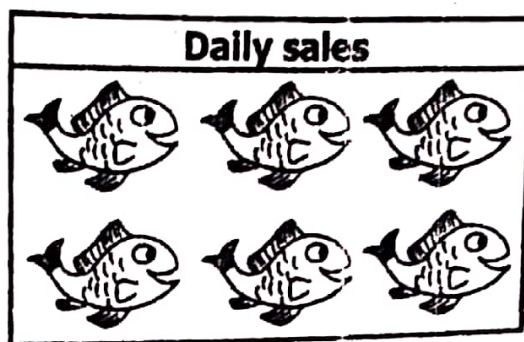
(02 Marks)



- (b) Calculate in litres the amount of milk it holds.

(03 Marks)



32. A fishmonger sells fish as indicated in the Picto-Graph below.



Given that   represent 24 fish, how much money does the fishmonger earn daily if he sells each fish at Sh.20,000?

(04 Marks)

