SERERE PRIMARY SCHOOLS JOINT
TERM THREE PRE-PLE ASSESSMENT
SET ONE 2024 PRIMARY SEVEN

MATHEMATICS

Time Allowed : *2 Hours 30 Minutes*

Index No.	Random No.					Personal No.		

Name:..

School:...

Signature:..

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO D SO

1. The 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 section 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 pencil.
6. Unnecessary alterration of work may lead to loss of marks
7. Any handwriting that cannot easily be read may lead to loss of marks
8. Do not fill anything in the boxes indicated for examiners' use only

Turn Over

SECTION A (20 QUESTIONS - 40 MARKS)

1. Workout: 36 + 3.4

2. Express DCLXIV in Hindu Arabic numerals

3. Write the integers represented by the arrows M and n in the number line below
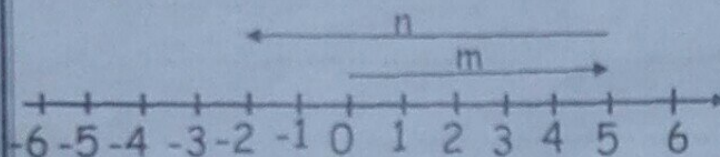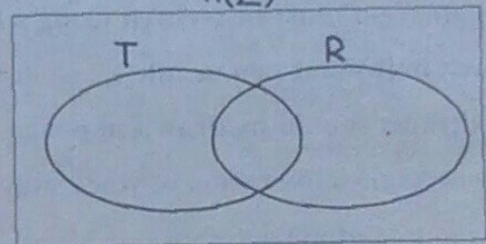

n =   m =

4. Jacob paid sh. 27000 for a trouser which was at a discount of 10%. What was the discount?

5. Simplify: $3(k - 2) - (-9 - k)$

6. Shade $(T-R)^1$ in the venn diagram below.

$n(\Sigma)=$

7. Find the LCM of 24 and 36

8. Calculate the volume of a cube whose base is $49m^2$

|	
9. Express 0845 hours into 24h clock system	10. Change 1500gs to kg
11. Workout: $24 \div \frac{3}{5}$	12. Given that $3^2 \times Y = 45$. Find the value of y
13. Write 64.531 in expanded form using powers.	14. An athlete covered a distance of 400m in 10 sec. calculate his average speed in km/h
15. Using a ruler, a pencil and a pair of compasses only. Construct an angle of 105^0	16. Solve: $2x - 6 = 3 - x$

17. In the diagram below, find the bearing of Soroti from Mbale
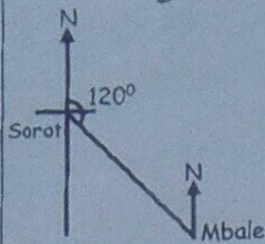
18. Change 121_{three} to base ten.

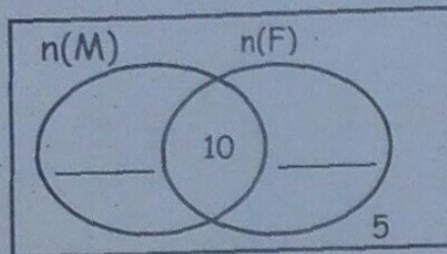**19.** Write the shaded fraction in the figure below.
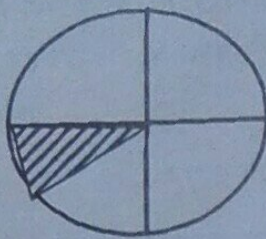
20. Workout the range of 6, 7, -2 and 13

SECTION B (60 MARKS)

21. In a party of 50 guests, all of them take water, (W), $3k + 15$ like Mirinda (M) and water $2k + 15$ guests like Fanta (F) and water only and 10 guests like all the three drinks while 5 like water only.

a) Complete the venn diagram below using the above information.   (2marks)

$$n(\Sigma)=50$$

b)Find the number of guests who like Fanta.   (3marks)

22. The median of 6 consecutive odd numbers is 18. Find the numbers. (4marks)

23. Given the digits 6, 4, 0 and 8
a) Form the smallest four digit number using the given digits above. (2marks)

b) Round off the smallest four digit number formed above to the nearest hundreds. (2marks)

24. A bus travels at a speed of 60km/h from town A to town B. it returns to town A at a speed of 90km/h using the same route. The whole journey takes 5hours.

a) Find the distance between A and B (3marks)

b) How long did he take on the return journey? (2marks)

25. Doreen went shopping and bought the following items
3kg of beans at sh. 3800 per kg
1½kg of sugar at sh. 3000 per kg
500g of meat at sh. 14000 per kg
8 tomatoes at sh. 600 every 2 tomatoes.
3kg of posho at sh. 4500
How much did she pay altogether? (5marks)

26. By selling a radio to Opio at sh. 275000, Odongo made a profit of 10%, Opio sold the same radio at a loss of 8% to Joseph.

a) At how much did Odongo pay for the radio? (3marks)	(b) Calculate the price at which Joseph bought the radio. (2marks)

27. Using a ruler, a pencil and a pair of compasses only construct a parallelogram PQRS where line PQ = 6cm, line QR = 4cm and angle PQR = 45° (4marks)

b) Measure diagonal PR (1mark)

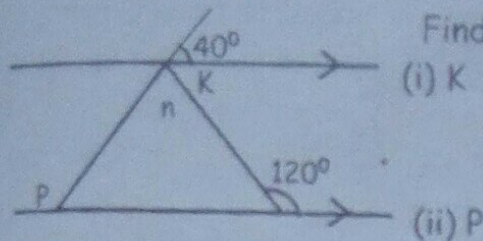28. Simplify: $\dfrac{0.04 + 0.02}{0.4 \times 0.3}$ (3marks)

b) Express 0.1222... as a common fraction (3marks)

29. Use the figure below to answer the questions that follow.   (2marks each)
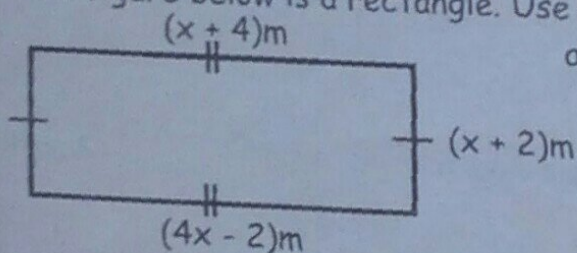
Find the value of:

(i) K

(ii) P

(iii) n

---

30. (a) Subtract: 344_{five} from 401_{five}

(2mrks)

b) Express 52 into ternary base

(2mark)

---

31. The figure below is a rectangle. Use it to answer questions that follow.

$(x + 4)m$

$(4x - 2)m$

$(x + 2)m$
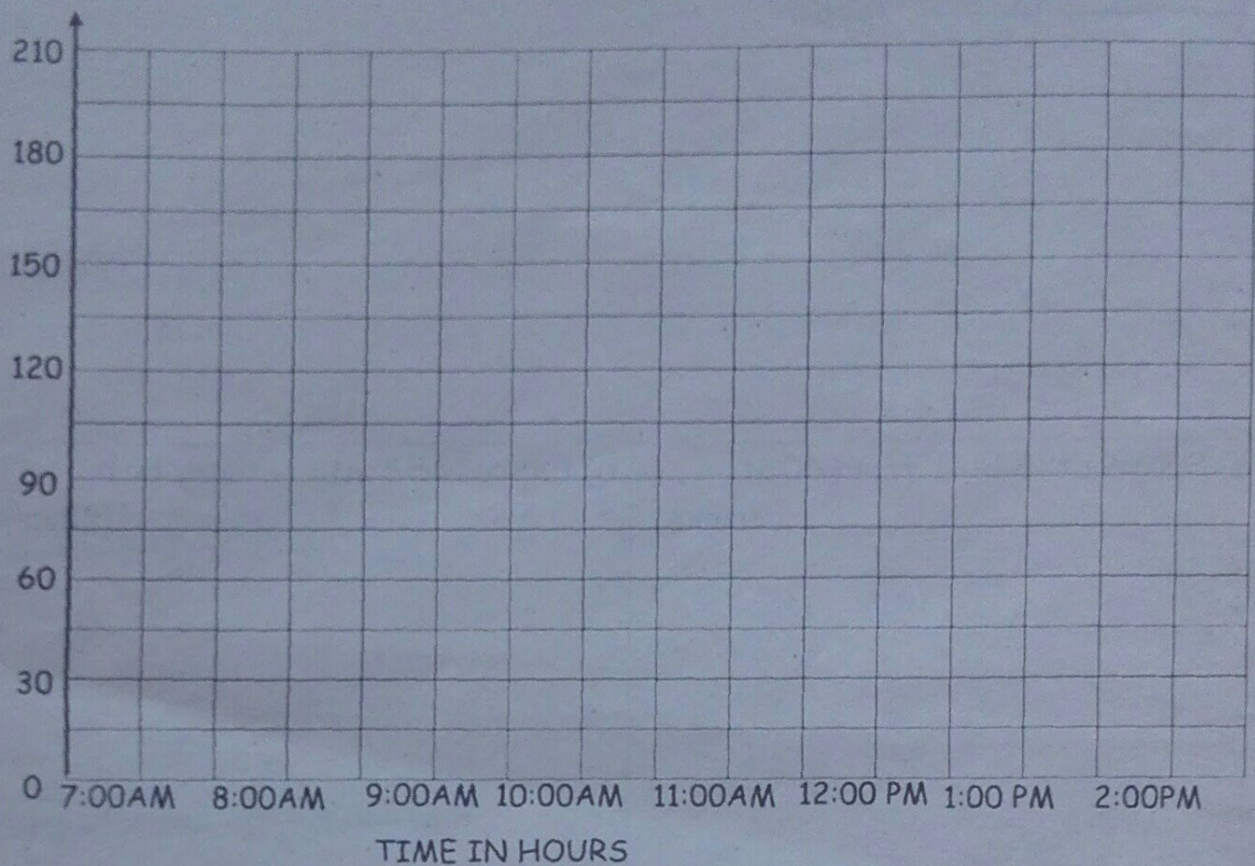
a) Find the value of x   (2marks)

b) Calculate the area of the above figure.

(3marks)

32. A bus left town X at 7:00am and travelled for 2 hours at a speed of 30km/h to town y. he rested for 30 minutes at town Y and later continued to town Z for 1 hour at a speed of 90km/h. he rested at town Z for 30 minutes and then drove back to town X at a speed of 75km/h

a) Show the above journey on the graph below. (4marks)

```
210 |
180 |
150 |
120 |
 90 |
 60 |
 30 |
  0 |_____
    7:00AM  8:00AM  9:00AM 10:00AM 11:00AM 12:00 PM 1:00 PM  2:00PM
                        TIME IN HOURS
```

(b) Calculate its average speed for the whole Journey. (2marks)

END