# MOTHER MAJERI PRIMARY SCHOOL

## PRE- PLE EXAMINATION, (SET 6 EXT.) 2024

**SUBJECT** : **MATHEMATICS**

**CLASS** : **P.7**

**DURATION: 2 HOURS 30 MINUTES**

Index No.

| | Random No. | Personal No. |
|---|---|---|
| | | |

Stream _____

Candidate's Name ...................................................................................................

Candidate's Signature ...........................................................................................

EMIS No. .................................................................................................................

District Name ........................................................................................................

## Read the following instructions carefully

1. This paper has **two** Sections: **A** and **B**.

2. Section **A** has 20 answer questions (40 marks)

3. Section **B** has 12 questions (60 marks)

4. Answer **ALL** questions. Answers to both sections must be written in the spaces provided.

5. All answers must be written using a blue ballpoint pen or ink Diagrams should be drawn in pencil.

6. Unnecessary alteration of 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 box indicated for examiner's use only.

CamScanner

## SECTION A: 40 MARKS

1. Divide: $36 \div 9$

2. Find the square root of $1\frac{7}{9}$

3. Solve for X: $2.5 - 2x = 0.5$

4. Find the next two numbers in the sequence below 81, 27, 9, 3, ......., .......

5. A mathematics lesson lasted for $1\frac{3}{4}$ hours. If it began at 11:30am At what time did it end?

6. Joab is 2years younger than Abdu. If their total age is 36 years, how old is Abdu.

7. Find the radius of a circle whose area is $38.5cm^2$

8. Joram received 18 banks notes of the same denomination amounting to sh. 90,000. Calculate the value of each bank note.

9. Calculate the mean of; 6m + 5, 7 and 9m − 3

10. Expand 34.98 using powers of ten

11. Find the size of angle marked K
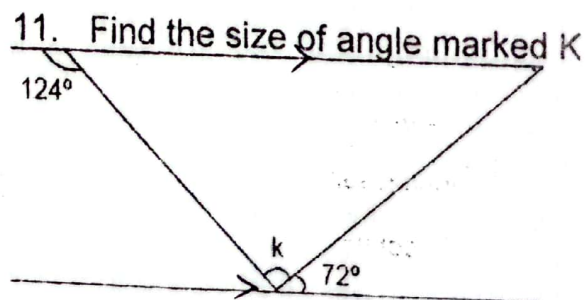
12. Four men can slash a compound in nine days. How many more men are needed to do the same piece of work in two days?

13. Opio turned through an angle of 225° clockwise to face South East. Find his original direction
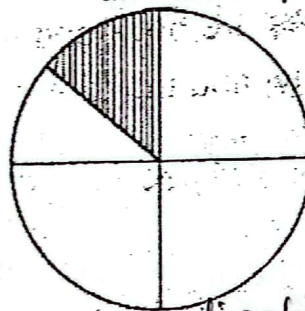
14. Find the length of the wire needed to make the figure below



5cm
4cm
8cm
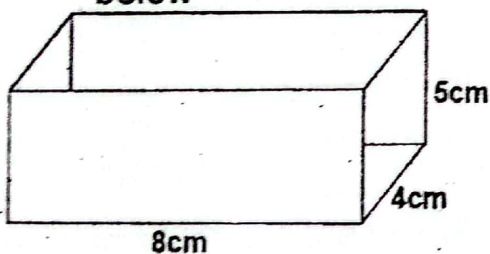
15. Workout: 2- 3 = _____ (finite 5) using clock arithmetic.

16. The length and width of a rectangle are in the ratio of 5:2 respectively. If the perimeter of the rectangle is 28dm, find its actual length

17. Find the percentage of the unshaded part



18. The distance of town, from B is S65°W. Find the bearing town B from town A

19. Express $\frac{5}{8}$ as a decimal fraction

20. Workout the complement of y + 60°

## SECTION B: 60 MARKS

21. A school driver drove at 60km/hr for 3 hours from town A to town B. He then returned to town A at a speed of 90km/hr

a)  Calculate the distance from town A to to town B.               (2mks)

b)  Calculate the average speed for the whole journey.        (3mks)

22. In a group of people, $\frac{3}{5}$ of them are males and the rest are females. If $\frac{2}{3}$ of the males are boys and $\frac{1}{2}$ of the females are girls and there are 1200 adults in the city, find the total population of the people in the city.   (5mks)

23. Using a ruler, a sharp pencil and a pair of compasses construct a triangle ABC in which AB = 8 cm, angle ABC = angle BAC = 45°. Drop a perpendicular line from C to meet AB at D        (4mks)

b)    Measure angle BCD                                                   (1mks)

24. The table below shows the arrival and departure time for a bus moving between Mbarara and Kampala

| TOWN | ARRIVAL | DEPARTURE |
|---|---|---|
| Mbarara | | 08 45hrs |
| Lyantonde | 09 30 hrs | 09 35hrs |
| Masaka | 10 00 hrs | 10 14hrs |
| Lukaya | 10 45 hrs | 10 55hrs |
| Nateete | 11 40 hrs | 11 50hrs |
| Kampala | 12 15 hrs | |

a)    How long did the bus take to travel from Lyantonde to Nateete? (2mks)

b)    For how long did the bus stay at Lukaya?l                        (1mk)

c)    If the distance between Mbarara and Kampala is 256km. calculate the average speed of the bus for the time it spent traveling?        (2mks)

25. A lorry full of sand weighs 20.7 tonnes. The weight of the empty lorry is 4.7 tonnes

   a) Workout the weight of the sand (2mks)

   b) Calculate the weight of the lorry when $\frac{3}{4}$ full (3mks)

26. The figure below PQR is an isosceles triangle
   a) Find the value of y in degrees. (2mks)
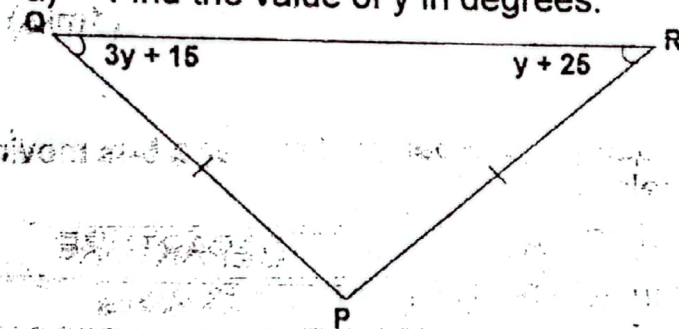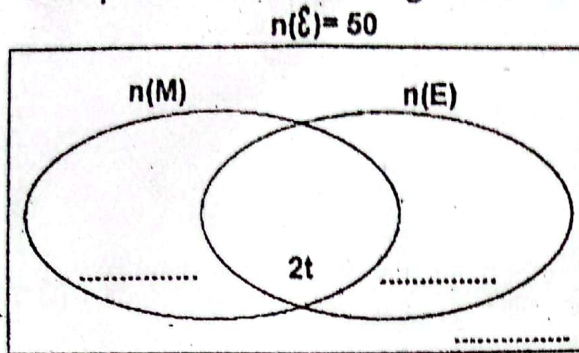


   b) Find the size of angle QPR. (3mks)

27. Solve for p: $\frac{1}{2}(4p - 2) = p + 2$ (2mks)

   b) Musa is 20 years older than Sarah. In 8 years time. Musa will be thrice as old as Sarah. How old is Musa now (3mks)

28. In a class of 50 pupils, 28 like mathematics (M), 3t-8 like English (E) only while 2t like both subjects.

a) Complete the Venn diagram below. (3mks)

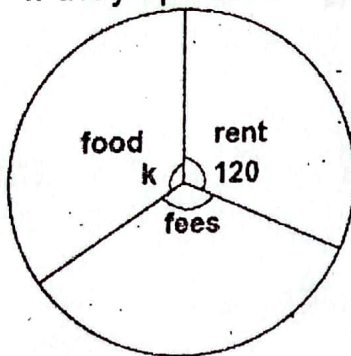n($\mathcal{E}$)= 50

b) Find the value of t (2mks)

c) How many pupils don't like English? (1mK)

29. The pie chart below shows how a family spends its income of sh 432,000. Study it carefully and answer the questions that follow

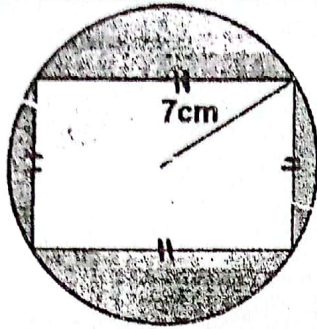a) If they spend sh. 108,000 on fees per month, find the value of k. (3mks)

b) How much less does he spend on rent than on food per month? (2mks)

30. Study the figure below and answer questions that follow
    a) Calculate the area of the outer figure. (2mks)



    b) Workout the area of the shaded part. (3mks)

31. A retailer bought a tray of 30eggs at sh. 500 each egg. During transit, p eggs got broken and he sold the remaining eggs each at sh. 800, making a profit of sh. 4200. Find the value of p. (4mks)

32. a) Simplify: $\frac{2}{5} \div \frac{3}{10} + \frac{1}{4} - \frac{1}{5}$ (2mks)

    b) Angle spent 40% of her salary on rent and 50% of the remainder on other items. She was left with sh. 300,000. How much money did she have at first? (3mks)