# THE MILESTONE EXAMINATIONS 2024

## P.7 SET I TERM II

## MATHEMATICS

*Time allowed: 2 hour 30 minutes*

| Index No. | EMIS No. | | | | | | Personal No. | | |
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**Candidate's Name: ……...**

**Candidate's Signature: ……..……..……**

**School Name: ……**

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

## Read the following instructions carefully;

1. This 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 the working for both sections **A** and **B** must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will **NOT** be marked.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated **"For Examiners' use only"** and the boxes inside the question paper.

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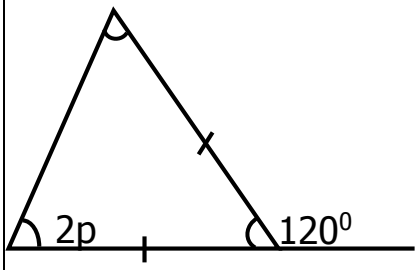
| FOR EXAMINERS' USE ONLY | | |
|---|---|---|
| Qn. No. | Marks | EXR's No. |
| 1-5 | | |
| 6-10 | | |
| 11-15 | | |
| 16-20 | | |
| 21-22 | | |
| 23-24 | | |
| 25-26 | | |
| 27-29 | | |
| 30-32 | | |
| **TOTAL** | | |

| SECTION A (40 MARKS) | | | |
|---|---|---|---|
| **1** | Multiply 3 x 5 using repeated addition. | **2** | Write CXCIV in words |
| **3** | Given that set Q has 31 proper subsets. How many elements does set Q have? | **4** | Find the next number in the sequence:<br><br>7, 11, 20, 36, 61 _____ |
| **5** | Simply 5p – r + P + 7r. | **6** | Find the value of P in the figure below.<br>  <br> |
| **7** | Express 72km/h as m/s | **8** | Round off 59.98 to one decimal place. |
| **9** | How many quarter litre packets of cooking oil can be got from a 20 litre jerrycan of cooking oil? | **10** | In a P.7 class, there are 30% more boys than girls. Find the percentage of boys. |



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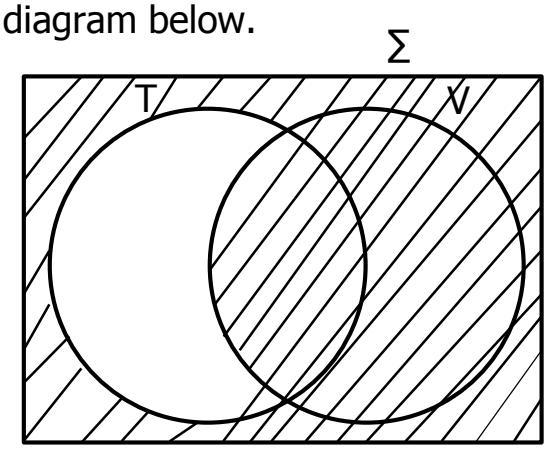
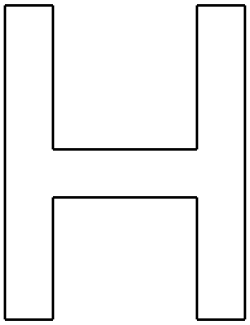
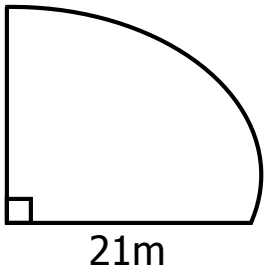
|---|---|---|---|
| **11** | Describe the shaded part in the Venn diagram below.<br>  | **12** | How many lines of folding symmetry has the figure below? (show them).<br>  |
| **13** | find the least number of sweets such that when divided by 6 boys, 2 remain and when divided by 8 girls 4 remain. | **14** | Work out 12 ÷ (7 - 3) + 7. |
| **15** | Calculate the perimeter of the figure below. (Use $\pi$ as $\frac{22}{7}$)<br>  | **16** | If 4 men take nine days to complete a job. How long will 12 men take to finish the job at the same rate? |
| **17** | Simplify $\bar{9} - \bar{6}$. | **18** | The average mass of 3 boys is 24 kg. If the mass of the two boys is 50 kg. Find the mass of the third boy. |

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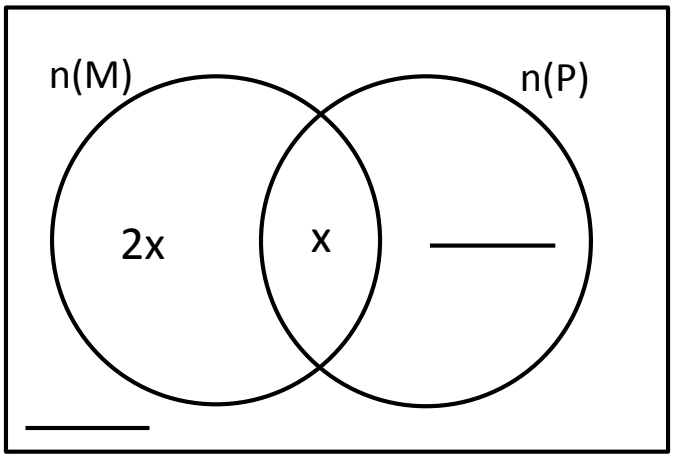
| **19** | Using a ruler, a pencil and a pair of compasses only. Construct an angle of $75^0$ | **20** | Use the distributive property to workout (126÷3) + (27÷3) |

**SECTION B (60 MARKS)**

**21** At a birthday party attended by guests. 2x guests took Mirinda (M) only, (x+10) guests took Pepsi (P) only. x guests took both Mirinda and Pepsi while 2 guest took none of the two drinks.

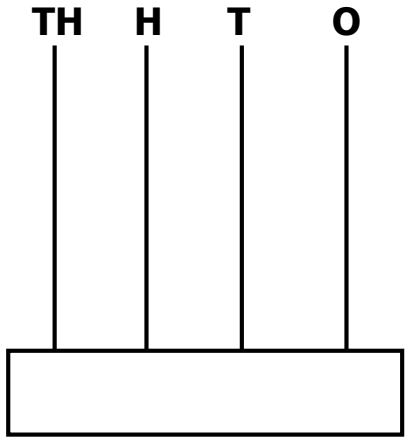
a) Use the above information to complete the Venn diagram below. **2 Mks**




a) If 32 guests took Pepsi altogether, how many pupils took both Mirinda and Pepsi? **(2 Mks)**

b) How many guests attended the party? **(1 Mks)**

**22** a) Given the number 2,045. Show the number on the abacus below. **(2 Mks)**




b) Write the given number above in scientific notation. **(2 Mks)**



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|---|---|
| | c) Expand the given number using exponents. (**2 Mks)** |

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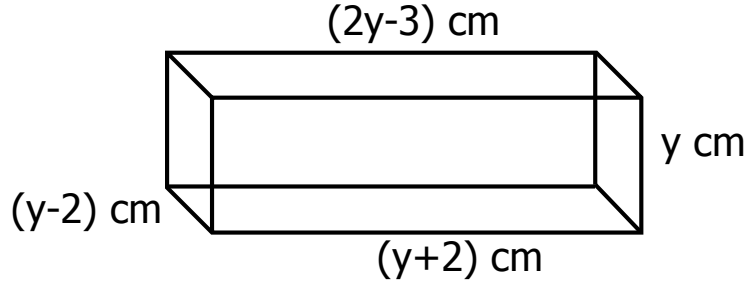
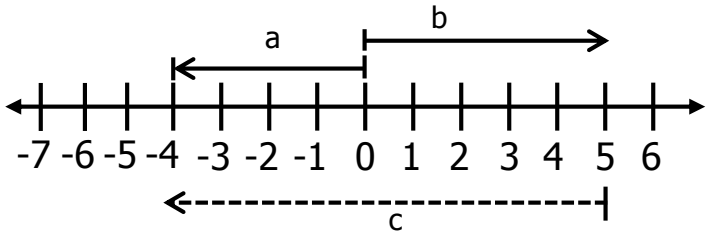
| **23** | Teacher Venekent went to the market and bought the following items.<br>2kg of sugar at Shs. 4,000 a kg.<br>500g of meat at Shs. 15,000 per kg.<br>12 mangoes at Shs. 1,000 for every 3 mangoes.<br>10 tomatoes at Shs. 3,000. | |
| | a) How much did he spend altogether. **(4 Mks)** | b) If Teacher Venekent remained with shs.17,500, after buying all items, how much did he have at first? **(1 Mk)** |
| **24** | The figure below is a cuboid, study and use it to answer the questions that follow.<br>  <br> | |
| | a) Find the value of y. **(2 Mks)** | b) Calculate the volume of the cuboid. **(3 Mks)** |

**25** A family eats a total of 93kg of rice for three consecutive days. It eats two more kilograms than the previous day.

a) If p kg of rice are eaten on the second day, find the value of p. **(3Mks)**

b) How many kilograms of rice are eaten on the third day. **(2 Mks)**

**26** Use the number line below to answer the questions that follow.




a) Write the integers represented by the arrows. **(1 Mk each)**

(i) a_____

(ii) b_____

(iii) c _____

b) Write a mathematical sentence represented on the number line above. **(2 Mks)**

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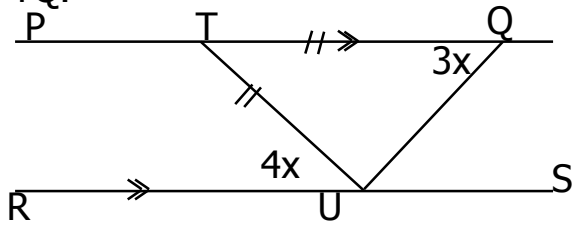
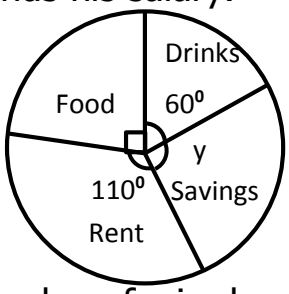
|---|---|---|
| **27** | A motorist left town P at 3:00pm and reached town Q at 5:00pm after traveling at an average speed of 84km/h.<br>a) How long did the motorist take to travel from town P to town Q? **(2 Mks)** | b) Find the distance between town P and town Q. **(2 Mks)** |
| **28** | a) Change $\frac{1}{4}$ to a decimal. **(2 Mks)** | b) Work out $\frac{40.85 + 14.4}{24.5 - 13.45}$ **(3 Mks)** |
| **29** | In the diagram below, line PQ and line RS are parallel to each other $\overline{TU} = \overline{TQ}$.<br>  <br>a) Find the value of x in degrees. **(3 Mks)** | b) Calculate the size of angle QTU. **(2 Mks)** |

| | | |
|---|---|---|
| **30** | a) Using a ruler, a pencil and a pair of compasses only, Construct a triangle XYZ in which XY= 6cm, angle ZXY = $45^0$ and angle XYZ = $60^0$. **(4 Mks)** | b)Measure <XYZ. **(1 Mk)** |
| **31** | a) If a = 3, b = -4 and c = 6. Find the value of $\frac{ab}{c}$ | b) Alfred is thrice as old as Wilfred. In 2 years' time, the sum of their age will be 34 years. How old is Alfred now? |
| **32** | The pie chart below shows how Mr. Edison spends his salary.<br>  <br><br>a)Find the value of y in degrees. **(2 Mks)** | b) If he spends shs.36,000 on drinks. Find his salary. **(2 Mks)**<br><br>c) Express the food sector as a fraction. **(1 Mk)** |



***END***