# THE SUPERIOR PRE – MOCK EXAMINATION 2023

## Primary Seven

## Mathematics

**TIME ALLOWED : 2 HOURS 30 MINUTES**

**PUPIL'S NAME:** _____

**DISTRICT:** _____

**EMIS NO:** _____

**INDEX No:** ☐☐☐☐☐☐☐☐☐

**READ CAREFULLY AND FOLLOW THE INSTRUCTIONS.**

1. This paper is made up of **Two** sections **A** and **B**.
2. Section **A** has **20** questions (**40 marks**)
3. Section **B**, has **12** questions (**60 marks**)
4. Attempt **ALL** questions. All answers to both Sections **A** and **B** **MUST** be written in the spaces provided.
5. All answers must be written in **blue** or **black** ball Point pen or ink. Only diagrams and graph work Must be done in pencil.
6. Unnecessary crossing of work will 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 table. It is for Examiner's use only

**FOR EXAMINERS USE ONLY:**

| SECTION | SCORE | REMARKS |
|---|---|---|
| A | | |
| B | | |
| TOTAL | | |

**Subject Teacher's comment:**

_____

_____

_____

THE SUPERIOR EDUCATIONAL SERVICES P.O.BOX KAMPALA
PULISHERS OF : EXAMS ACTIVITY BOOKS HOLIDAY PACKAGE
AND GENERAL PRINTING
TEL: 0751622387 / 0700813777 / 0772622387

## SECTION A

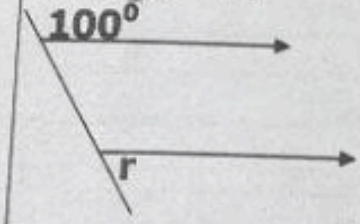
1. Work out:

$$\begin{array}{r} 3\ 1\ 6 \\ -1\ 0\ 3 \\ \hline \\ \hline \end{array}$$

2. Lukiya ran a distance of **100** metres in **10** seconds. What was her speed in kilometers per hour?

3. Round off to the nearest thousands: **3649**

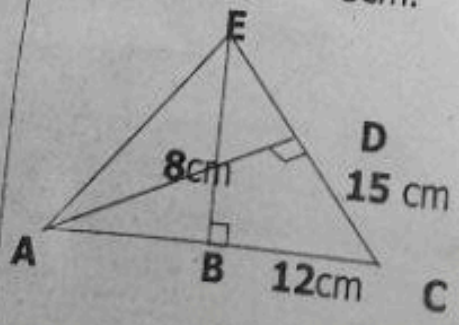
4. In the figure below, find the size of angle **r**.



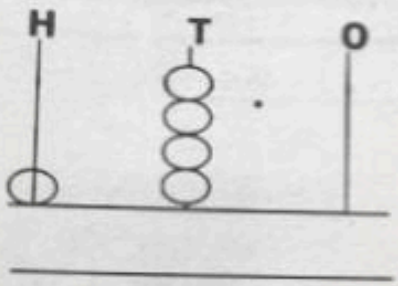

5. Find the **G.C.F** of **18** and **12**.

6. Simplify: $^{3}/_{7} \times {}^{14}/_{15}$.

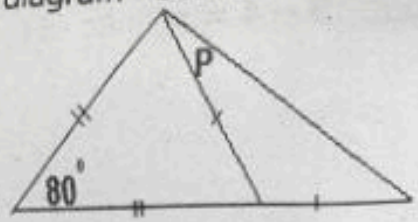
7. In the triangle below, find the length of **BE** if **AC** = **12**cm, **CE** = **15**cm and **AD** = **8**cm.




8. John was facing north west and he turned anti-clockwise to face south. Through what angle did he turn?

| | | | |
|---|---|---|---|
| 9. | Simplify: $3 - {}^{+}4$ | 10. | Work out: $3 - 4 = x$(finite 5) |
| 11. | Apolot started sleeping at **10.30** pm and woke up at **4.15**am. How long did she take sleeping? | 12. | Factorise completely. $6ab^2 - 12ab$ |
| 13. | Complete the abacus below:<br>  <br> | 14. | **6** men can do a piece of work in **32** days. If the work is to be finished in only **12** days, how many more men are required? |
| 15. | Calculate the circumference of a circle whose radius is **14**cm. | 16. | How many lines of symmetry does the figures below have?<br>  |
| 17. | Using a pair of compasses, pencil and ruler, construct an angle of $75^0$ | 18. | Change $111_{two}$ to decimal base. |

19. Find the size of angle **P** in the diagram below.




20. The cost of 1 kg of beans is **2000**. Find the cost of **500g** of beans.

## SECTION B

21. In Motosella Primary School, $^{1}/_{3}$ of the pupils in P.7 like Matooke, $^{2}/_{5}$ of the remainder like rice. The rest of the pupils like posho. If those who like posho are **42**, find the total number of pupils in P.7. *(5 mks)*

22. Workout.**(13÷3)+(17÷3)**Using distributive property *(2 mark s)*

b) Find the sums of the value of **6** and place value of **5** in **1635**

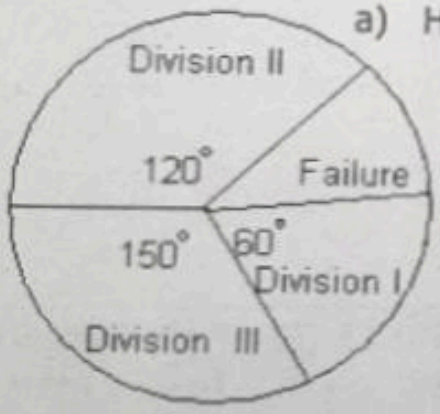
*(3marks)*

23. In a match factory, **50** match sticks a packed in a match box, **20** match boxes are packed in a packet and **10** packets are packed in a carton.

a) How many sticks are there in a carton? *(2 mks)*

b) If the mass of the sticks in a packet is **20**gms, what is the mass of **1** stick? *(3 mks)*

24. The circle graph below shows the performance of **60** candidates of Bread and Butter P/S in **PLE** mock examinations. Use the information to answer questions that follow.

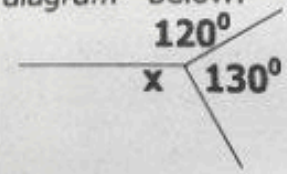



a) How many candidates passed in Division **I**? *(2 mks)*

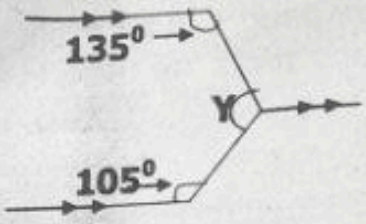
b) Of those who passed, what fraction passed in Division **III**? *(2 marks)*

c) How many candidates failed? *(2 mks)*

25. a) Find the value of **x** in the diagram below. *(2 mks)*



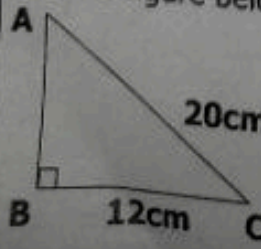

b) Work out the size of angle **y**. *(2 mks)*



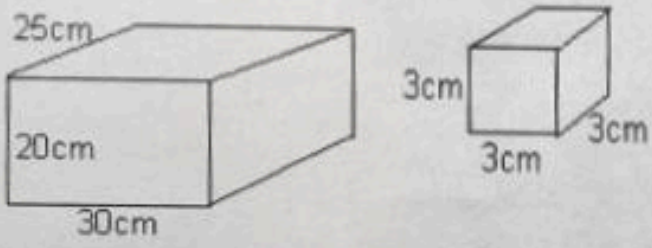

26. A parent bought **8** exercise books at Sh.**(x – 150)** each and **2** Mathematical sets at Shs. **(x + 100)** each. Altogether she spent shs.**5300**. How much money did she spend on books? *(5 mks)*

27. Using a ruler, a pencil and a pair of compasses construct a regular Hexagon in a circle of radius **3.5cm**. *( 4mrks )*

28. Use the figure below and answer questions that follow.

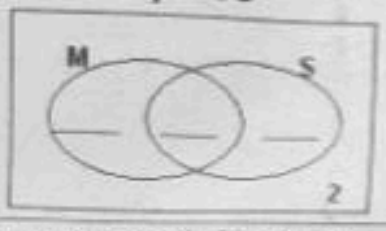



a) Workout the area of the figure. *4mrks)*

| | | | |
|---|---|---|---|
| b) | Calculate its perimeter. *(1mrk)* | | |
| 29 | Given the digits **7,1** and **5**. a) Form the largest **3** digit numeral. *(1mk)* | | |
| b) | Write the smallest **3** digits numeral in standard form. *(2mks)* | c) | Find the difference between the largest and smallest **3** digits numerals formed. *(1mk)* |
| 30. | Pieces of soap each measuring **3cm** by **3cm** by **3cm** are to be packed into a box measuring **30cm** by **25cm** by **20cm** as shown below.<br>  <br>a) How many pieces of soap can be packed into the box? *(2 mks)* | | |
| b) | Calculate the space left empty after the pieces have been packed into the box. *(4 mks)* | | |

31. In a group of **68** pupils, **33** like Mathematics (**M**), **25** like Science (**S**), **y** pupils like both Mathematics and Science while **2** pupils do not like any of the two subjects. a) Show this information in the venn diagram below. *(3 mks)*

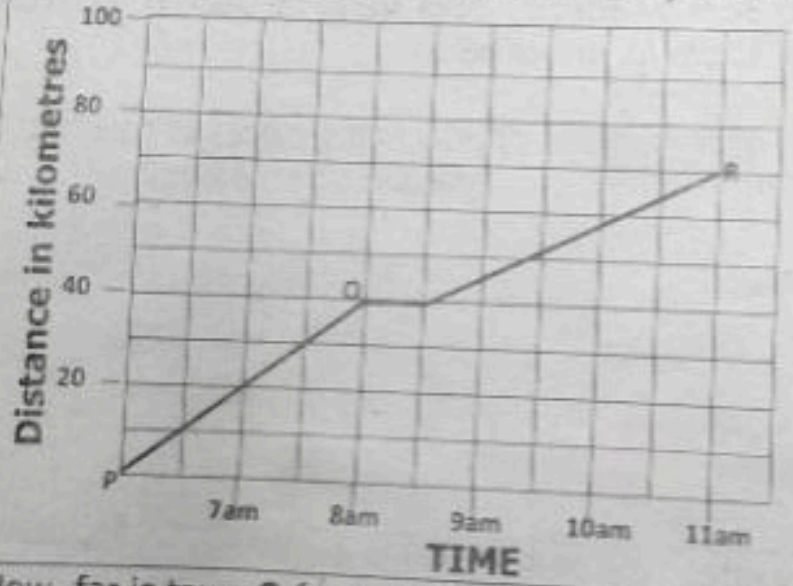
$\xi = 60$




b) How many pupils like both Mathematics and Science? *(2 mks)*

Find the probability of picking a pupil who likes only one subject to be the class monitor. *(1 mks)*

32. A motorist drove from town **P** to town **R** via town **Q** as shown below. Study the graph carefully and use it to answer the questions that follow.




a) How far is town **Q** from town **P** *(1mk)*

b) For how long did the motorist stay at town **Q**? *(1 mk)*

c) At what time did the motorist reach town **R**? *(1 mk)*

d) What was the motorist's average speed for the whole journey? *(2 mks)*