SEETA JUNIOR SCHOOL EXAMINATIONS COMMITTEE

QUALITY CHECK SET 8 EXAMINATION

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

EMIS No.						Personal No.		

Index No. :

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. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss of marks.**
7. Do **not** fill anything in the boxes indicated: **"For Examiners' Use Only"**

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXRS' NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		

SECTION A: (40 MARKS)
(Questions 1 to 20 carry two marks each.)

1. Workout:

$$\begin{array}{r} 214 \\ \times \quad 2 \\ \hline \\ \hline \end{array}$$

2. Simplify: $3k - t + 4k + 3t$

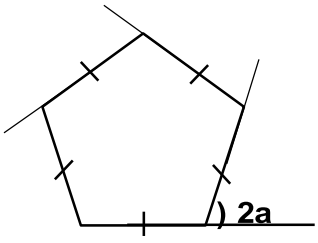
3. Write one hundred thousand, one hundred one in figures.

4. Given P={△}, find the number of proper subsets in set P.

5. Simplify: $-\frac{1}{4}(8m - 12b)$

6. Mutyaba sold a radio at sh. 230,000 making a loss of sh. 15,000. Find the cost price of the radio.

7. The diagram below shows a regular polygon. Find the value of a.



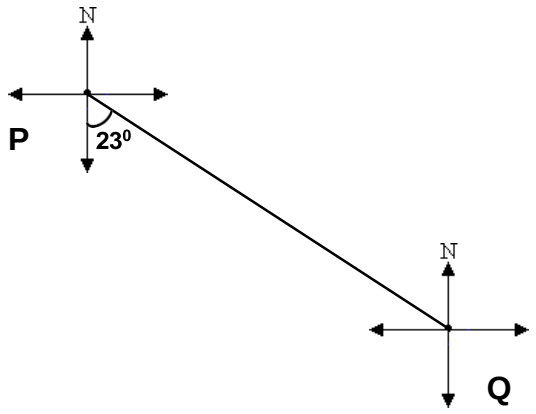
8. Find the range of $^{-}2$, 5, 0, $^{-}6$ and 3.

9. A trader packed juice in 400ml bottles. How many bottles did he get from 6 litres of juice?

10. Workout: 212_{five}

$-\ 104_{five}$

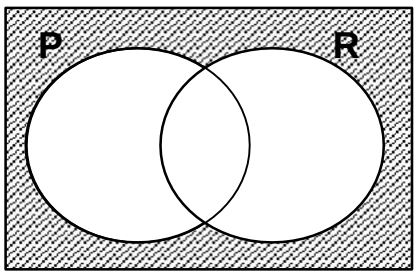
11. Find the bearing of point P from point Q in the diagram below;



12. A taxi driver moving at a speed of 72km/h took 45minutes on the way. Find the distance he covered.

13. Decrease 150kg of sugar in the ratio of $\frac{1}{2} : \frac{3}{4}$

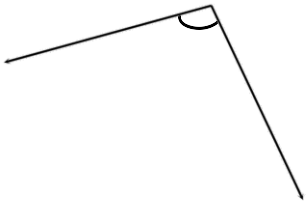
14. Describe the shaded region in the venn diagram below.



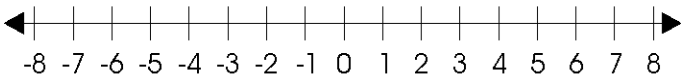
15. Suzan bought 6 heaps of mangoes at sh. 7200. How many heaps would she buy for sh. 4800. For the same type of mangoes?

16. Solve: $3^{3n} \div 3^{n} = 81$

17. The angles shown below are accurately drawn. Find the size of the marked angle.



18. Using the numberline below, workout $3 \times {}^{-}2$.



19. Find the simple interest on sh. 270,000 banked for 8 months at a rate of 20% per annum.

20. Solve: $4 - 2\mathrm{K} < 12$.

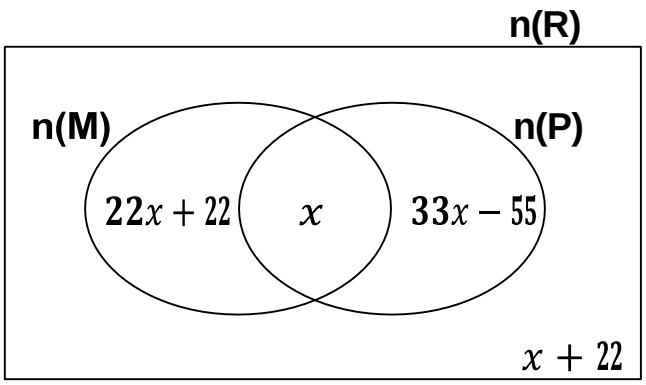
SECTION B: **(60 MARKS)**

Answer **all** *questions in this section.*

21. (a) Arrange $\frac{22}{33}, \frac{1}{22}, \frac{22}{55}$ in an increasing order. **(02 marks)**

(b) Workout: $\frac{00.6666 + 00.2222}{00.33 \times 00.66}$ **(03 marks)**

22. The venn diagram shows P.7 pupils who like Rice (R), Posho (P) and Matooke (M). All the pupils like Rice.



(a) If 14 pupils like only one type of food, find the value of x. **(02 marks)**

(b) Find the total number of pupils in the class. **(03 marks)**

23. Mama Tendo distributed books among her children Patricia, Dorothy and Albert in the ratio of 5:2:3 respectively. Patricia got 10 more books than Albert.

(a) Find the total number of books shared by the three children. **(03 marks)**

(b) Express Dorothy's share as a percentage of the total number of the books. **(02 marks)**

24. Given that $y = 22x + 22$, complete the table below. **(04 marks)**

X	0	_____	$^{-}2$	_____	3
Y	2	4	_____	$^{-}2$	_____

25. There are 1,220 girls in Joy Primary School, 40% of the pupils are boys. During their sports day, each pupil was given 2 apples, how many apples were given to the whole school? **(04 marks)**

26. The table below shows how a cyclist travelled from Iganga to Kampala.

Town	**Arrival time**	**Departure time**
Iganga		9:45a.m
Lugazi	10:30a.m	10:40a.m
Mukono	11:45a.m	12:00Noon
Kampala	1:15p.m	

(a) Express the arrival time to Kampala in the 24hour clock system. **(01 mark)**

(b) Find the time the cyclist took to travel from Lugazi to Kampala. **(02 marks)**

(c) If the distance from Iganga to Kampala is 140km, calculate the cyclist average speed for the whole journey. **(03 marks)**

27. The median of 4 consecutive odd numbers is 30.

(a) Find the numbers. **(03 marks)**

(b) Workout the sum of the smallest and the largest numbers. **(01 mark)**

28. (a) Using a ruler, pencil and pair of compasses only, construct a parallelogram PQRS where PQ=6.5cm QR=5cm SPQ=60^0. **(04 marks)**

(b) Measure angle DAB. **(01 mark)**

29. Mr. Okello spends $\frac{1}{22}$ of his monthly salary on fees, $33\frac{1}{3}\%$ on transport, $\frac{1}{66}$ on food and saves sh. 360,000.

(a) Find Mr. Okello's monthly salary. **(04 marks)**

(b) Express his salary in scientific notation. **(01 mark)**

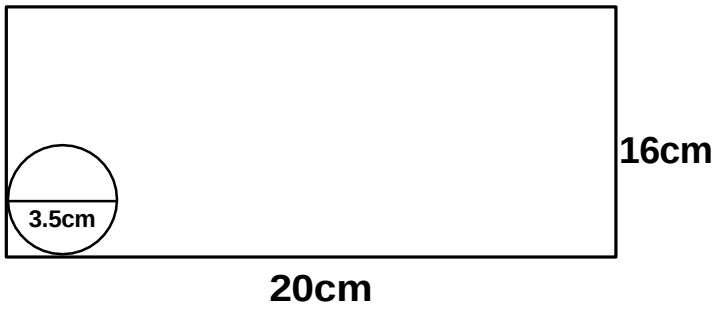
30. The table shows Halima's shopping bill.

(a) Complete the table. **(01mark@)**

Item	Quantity	Unit cost	Amount
Soap	4 bars	Sh. 3650	Sh. 14,600
Beans	$3\frac{1}{2}$kg	Sh. _____	Sh. 14,000
Sugar	_____gms	Sh. 3200 per kg.	Sh. 2400
Rice	2kg	Sh. 4500	Sh. _____
			_____

(b) Halima paid sh. 37500 for all the items. Calculate the percentage discount she was offered. **(01 mark)**

31. The figure below shows a rectangular metallic sheet measuring 20cm by 16cm. circular pieces of diameter 3.5cm are to be cut out from it. Study it carefully and answer the questions that follow.

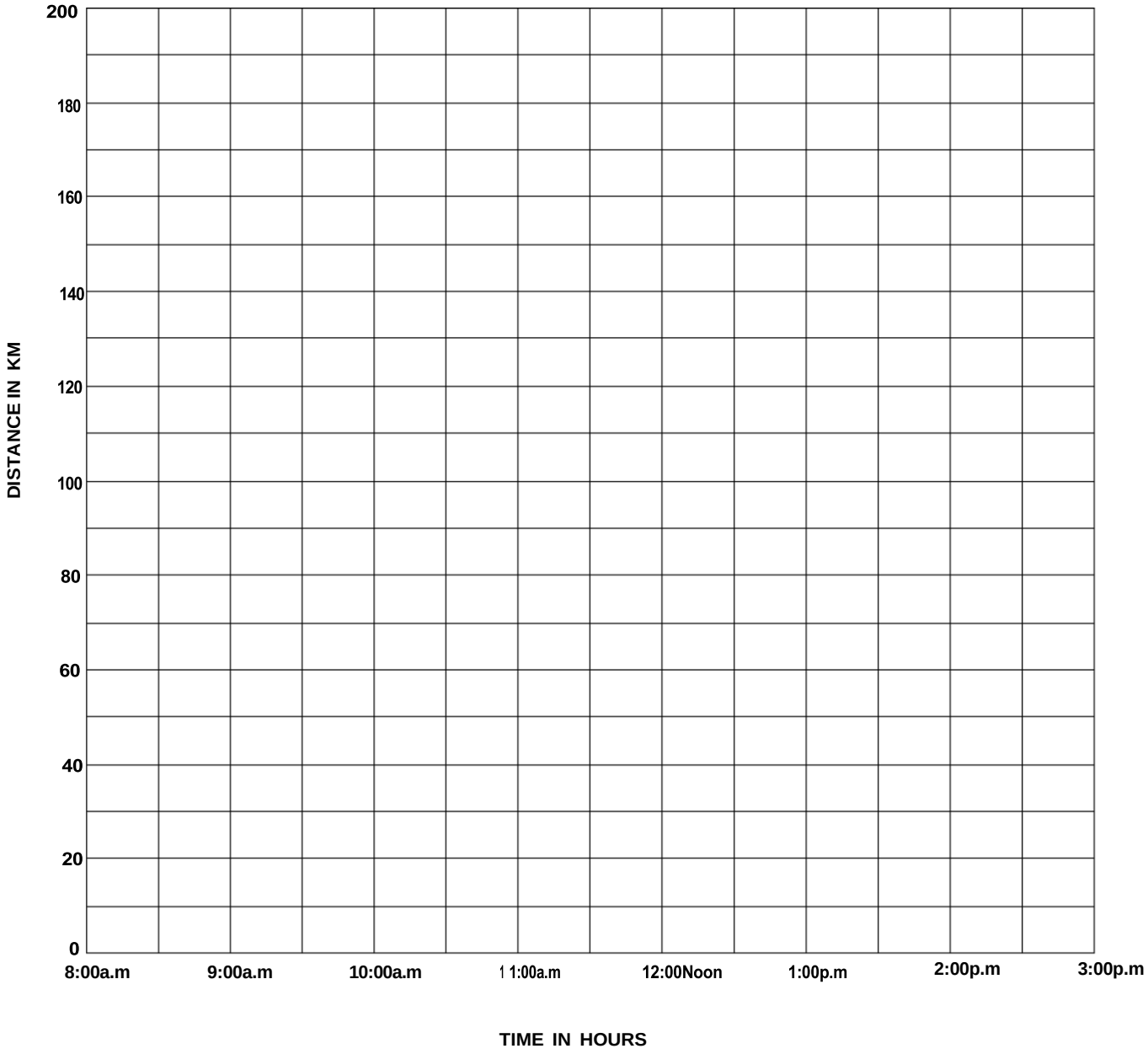


(a) Find the total number of circular pieces that can be cut out from the rectangular sheet. **(02 marks)**

(b) Calculate the area of the unused metallic sheet. ($\pi = \frac{22}{7}$) **(04 marks)**

32. Jalia left town P at 8:00a.m and drove at 55km per hour for 2 hours to town Q. she rested for a half an hour at town Q. she left town Q and drove for $1\frac{1}{2}$ hours covering 60km to town R, rested for another one hour and then drove for 60 minutes to town T at a distance of 30km.

(a) Draw Jalia's journey on the graph below. **(05 marks)**



(b) Calculate her average speed for the whole journey. **(01 mark)**

*****THE END*****