SHINE STAR EXAMINATIONS BOARD

POST REGISTRATION SET

2025

MATHEMATICS

PRIMARY SEVEN

Time allowed: 2hours 30 minutes

Random No.						Personal No.		

Candidate's name: .....

Candidate's Signature: .....

District ID NO.

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections **A** and **B**. Section **A** has **20 Questions** and **section B** has **12 questions** .This paper has **13 pages printed** altogether.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working **must** be done using a **blue** or **black** ball Point **pen** or **ink**. Any work done in pencil other than Graphs and diagrams will **NOT** be marked.
5. **No calculators** are allowed in the examination room.
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 EXAMINER'S USE ONLY"** and in the boxes inside the question paper**.**

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 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: (40 MARKS)

Answer **all** *the questions in this section.*
Questions ***1*** *to* ***20*** *carry* ***two*** *marks each.*

1. Workout: 45 – 23

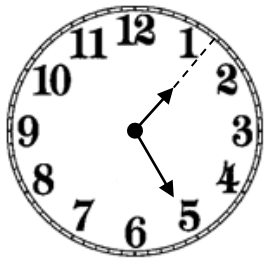
2. Write **"Fourteen thousand, forty - two"** in figures.

3. Simplify: $5k - (k\text{-}2)$

4. Round off 4.46 to the nearest ones.

5. Given that $2p + 20^0$, 30^0 and 90^0 are angles on a straight line.
   Find the value of p.

6. Tr. Micah had his lunch at the time shown on the clock face below. At what time did he have his lunch?



7. The mean of y, 5, 3 and 2 is 3. Find the value of y.

8. Given that M = {all vowel letters}. Calculate the number of subsets in set M.

9. Convert 23_{ten} into a binary base.

10. Using a pair of compasses, ruler and a very sharp pencil only, construct an angle of 150^0 in the space below.

11. The cost of 3kg of maize flour is sh. 7,500. If Moses paid sh. 125,000 for a sack of maize flour at the same rate, calculate the weight of the sack of maize flour.

12. After selling a phone at sh. 90,000, Ssentongo realized a loss of sh. 30,000. What was the cost price of the phone?

13. Given that a is a third of b and $b = 2$. Find the value of $a + b$

14. Muwanguzi has 7 *t*. shirts and 5 shirts in his suitcase. Calculate his probability of selecting a *t*. shirt at random from the suitcase.

15. Find the biggest number of pupils who can be given 12 or 15 apple and no apple remains.

16. The price of a watermelon was decreased from sh. 5000 to sh.4000. Calculate the percentage decrease in the price of the watermelon.

17. Convert *10m/sec* into *km/hr*.

18. The temperature of juice in a fridge dropped by *3°C* to *-5 ^{0}C*. What was the old temperature of juice?

19. A farmer planted 100 eucalyptus trees in his garden in a straight line. The distance from one tree to another tree was 600cm each. Calculate the distance from the first to the last tree in meres.

20. The base area of a rectangular box is 48cm^2. Find its height if it has a volume of 200cubic centimetres.

SECTION B: (60 MARKS)

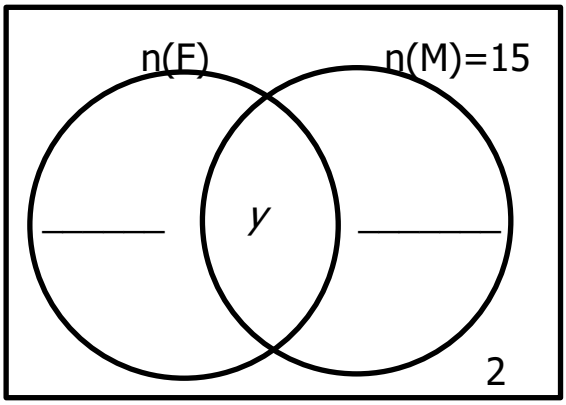
Answer **all** *questions in this section*

Marks for each question are indicated in brackets.

21. At a wedding ceremony, 34 guests were invited. 15 guests ate meat (M), 20 guests ate fish (F), *y* guests ate both fish and meat while 2 guests did not eat any of the two dishes.

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

n (∑) = 34



b) How many guests did not eat fish? ***(3marks)***

22. Given the digits 4, 0, 6

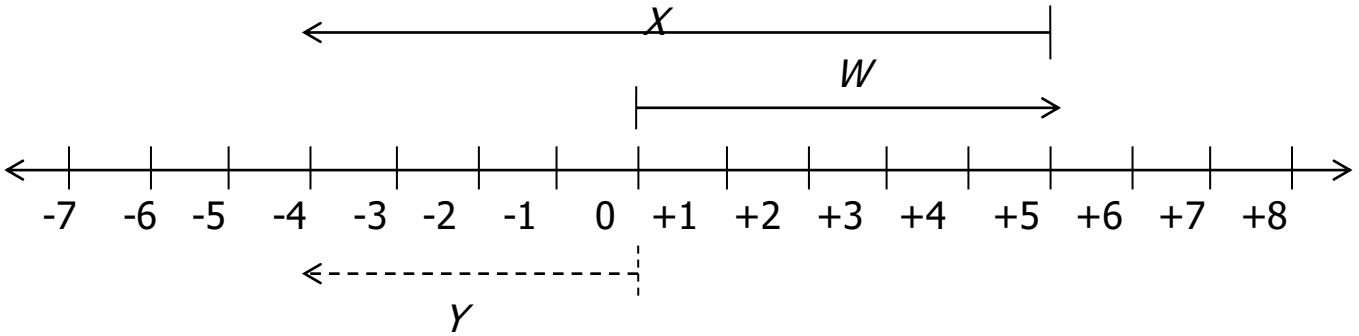
a) Write all the possible 3-digit numbers that can be formed using all the above digits. ***(2marks)***

b) Find the **sum** of the largest and smallest 3-digit numbers formed in question 22(***a***) above. ***(2marks)***

23. *a*) The sum of 3 consecutive counting numbers is 24. If the first number is *k*. find the value of *k*. ***(2marks)***

b) The LCM of two numbers is 36 and their GCF is 6, find the first number if the second number is 18. ***(2marks)***

24. Study the number line below and use it to answer the questions that follow.



a) Name the integers represented by; ***(1mark@)***

(i) *Y* =.....

(ii) *W*=.....

(iii) *X* =.....

b) Write down the mathematical sentence for the above number line.

(2marks)

25. A certain school, the number of pupils who reported on the first day for term one in P.7, P.6 and P.5 was in the ratio of 3: 5: 2 respectively.
If 18 more pupils reported in P.6 than P.7, how many pupils reported in each class? ***(6marks)***

26. *a*) Solve $2^{3k} \div 8 = 1$ ***(2marks)***

b) Solve the inequality; $7 < 3p - 2 < 16$ and find the solution set. **(3marks)**

27.Babirye Edith bought the items as shown in the table below.

Item	Quantity	Unit cost	Total cost
Meat	1 ½ kg	Sh. 15,000	Sh. _____
Sugar	3kg	Sh._____	Sh.14,400
Soap	_____bars	Sh. 6, 500	Sh.19,500
TOTAL EXPENDITURE			**Sh._____**

a) Complete the table above. ***(4marks)***

b) If she remained with sh. 3,600 after buying all the items, how much money did she have at first? ***(2marks)***

28. Nakalema filled $\frac{4}{5}$ of a tank with water. The tank had a diameter of 70cm and height of 100cm. Calculate the litres of water needed to fill the tank to its full capacity. ***(5marks)***

29. In a basket of 45 eggs, 20% of them are bad eggs and the rest are good eggs.

a) How many good eggs are in the basket? ***(3marks)***

b) Express the number of bad eggs as a fraction of all the eggs in the lowest term. ***(2marks)***

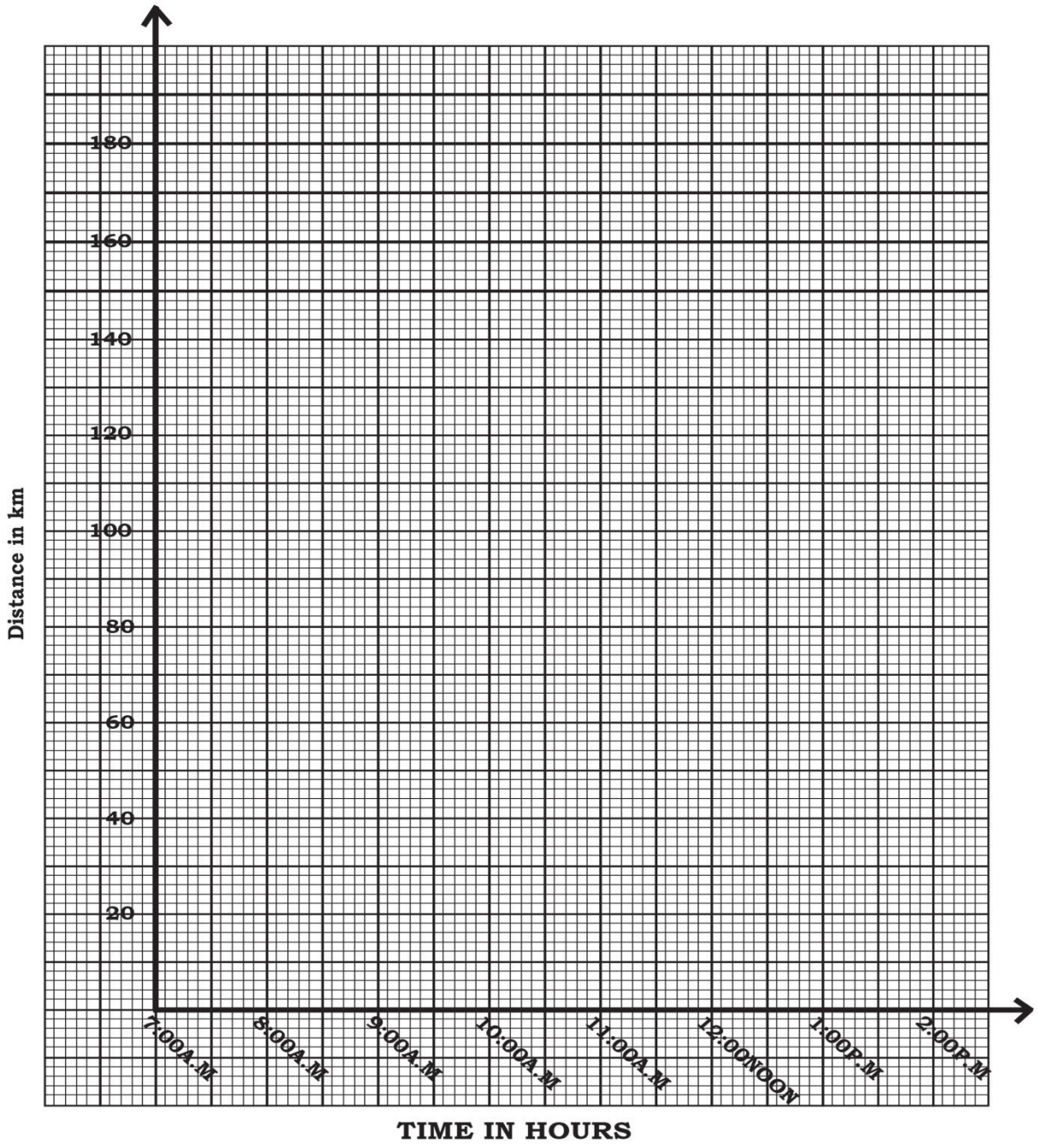
30. At a stationary, the cost of a pen is twice the cost of a pencil. The cost of a book is sh. 1,200 more than the cost of a pen. If Ssempija paid sh.900 for a pen and a pencil, how much will he pay for the two books?
(5marks)

31. Using a pair of compasses, ruler and a pencil only;

a) Construct a triangle **PQR** in which **PQ**=6cm, angle **RPQ** =60^0 and angle **PQR** = 45^0. Construct a perpendicular from **R** to meet **PQ** at **K.** ***(5marks)***

b) Measure ***RY*** = _____cm ***(1mark)***

32. A cyclist left home for Iganga town at 7:00a.m using a speed of 50km/h for 2 hours. He found traffic jam which took 1 ½ hours. He later continued to Iganga town using a speed of 32km/h for 2 ½ hours.
(*a*) Use the above information to show the cyclist journey on the graph below. **(3marks)**



b) Calculate the average speed for the whole journey. ***(2 marks)***

END