NEXT EXAMINATIONS BOARD

PRE-PLE SET 13 (HAWK)

2026

MATHEMATICS

Total Marks scored	

Time Allowed: 2 hours 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. The paper has **15 printed** pages.
3. Answer **all** questions. **All** 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 EXAMINERS' USE ONLY"** and in the boxes inside the question paper.

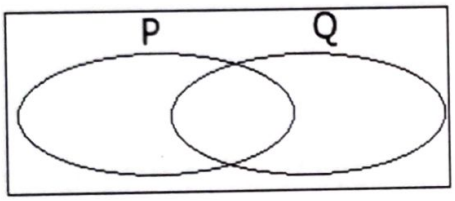
FOR EXAMINERS' USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: (40 marks)

1. Workout: $\frac{2}{5} + \frac{1}{5}$

2. Simplify: $\bar{8} - \bar{4}$

3. Shade the complement of set Q on the Venn diagram below.



4. Peter has 13 goats on his farm. Use tallies to represent his number of goats.

5. Simplify: $3ab - 2f + ab + f$

6. Find the number which when multiplied by itself gives 1.44

7. Using a ruler, a pencil and a pair of compasses, construct a quadrant of radius 3 cm in the space provided below.

8. Find the number expressed in standard form to give; 4.05×10^{-2}

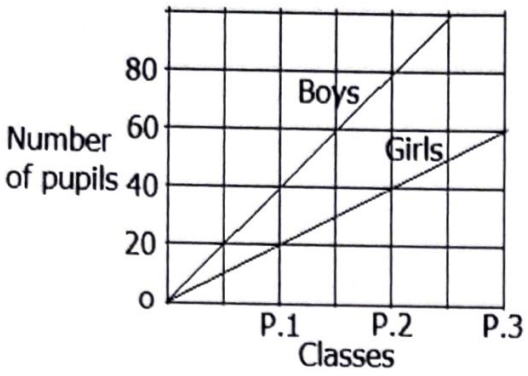
9. Noni bought $1\frac{1}{2}$ kg of sugar at sh. 6300. Find how much money he would pay for 4 kg of sugar at the same rate.

10. Write the next number in the sequence below;

    XV, XVII, XIX, XXI, ...

11. A one hour and five-minute staff briefing by the headteacher ended at 1:05p.m. Find the time it started.

12. The graph below shows the number of girls and boys in P.1, P.2 and P.3 in a certain school. Use it to answer the question.



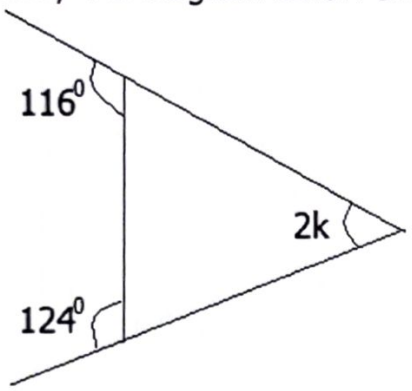
Workout the total number of pupils in P.2

13. Okiror was asked to list the first 20 triangular numbers. Find the number on which his list ended.

14. Drake covered $\frac{2}{3}$ of his journey while running and the remaining distance while walking. If he walked 4 km, find how long the journey was.

15. Due to high demand, a businessman increased the price of a shirt by 20% to sh.40,000. Workout the original price of the shirt.

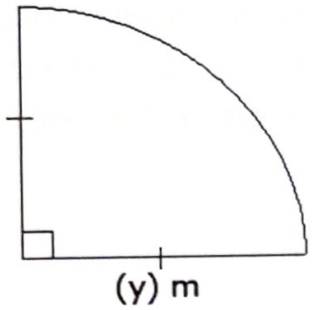
16. Study the diagram below and use it to find the value of k.



17. Penina and Pamela can wash all the plates in 4 minutes but Pamela alone can wash the same number of plates in 6 minutes. Find how much time it takes Penina alone to wash all the same plates.

18. Mateki, the LCI chairman, was asked to distribute 135754 hoes amongst 11 village farmers. Without dividing, establish whether the farmers got an equal number of hoes.

19. Given that the distance round the shape below is 35.7m, find the value of y.



20. When a teacher asked children to make groups of 5s and share some sweets, 4 sweets remained but when they grouped in 4s, 3 sweets remained. Calculate the number of sweets the teacher had.

SECTION B: (60 marks)

21. a) Solve for m: $3(m - 2) - (m + 4) = 2$ (2 marks)

b) During the World cup tournament, France scored 4 more goals than Senegal. Brazil scored 6 less goals than France. If France scored thrice as many goals as Senegal and Brazil, find how many goals were scored by Senegal. (4 marks)

22. a) Simplify: $\frac{2.4 \; X \; 0.8}{1.2 \; X \; 2}$ (3 marks)

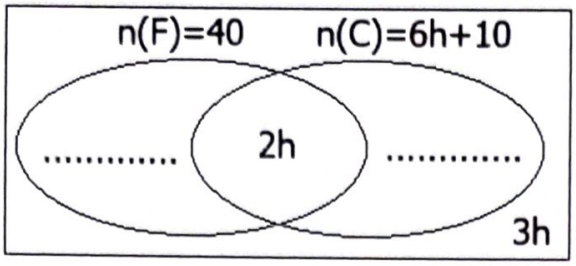
b) On the P.7 visitation day (VD), $\frac{1}{5}$ of the parents visited their children in the morning, $\frac{1}{2}$ of the remainder came at midday and the rest came in the afternoon. Find the fraction of the parents who visited in the afternoon. (3 marks)

23. a) Find the value of k in: $100_k = 44_{eight}$ (3 marks)

b) A 15-day Heads of State Conference at Speke Resort Munyonyo started on Friday. Workout the day of the week it ended. (2 marks)

24. In a certain Health Centre III, 64 patients were present for treatment of cough (C) and flu (F) on a certain day. 40 patients had flu, 2h patients had both cough and flu, (6h + 10) patients had cough whereas 3h patients had other ailments.

a) Represent the above information on the Venn diagram below. (2 marks)

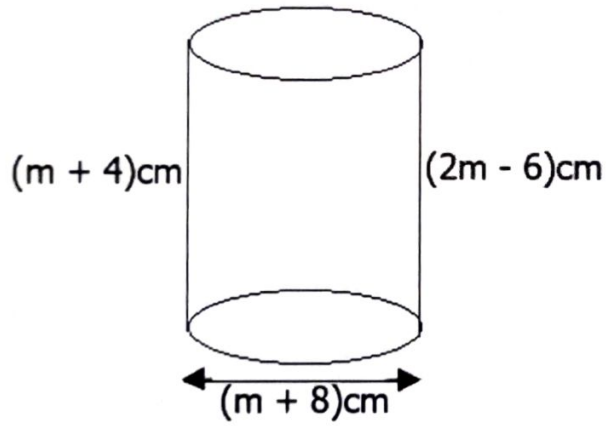


b) Workout the number of patients who were suffering from both cough and flu. (2 marks)

c) If the Health Minister was to visit the facility and speak to one of the patients, find the chance that he would speak to a patient suffering from other complications. (1 mark)

25. A certain factory pays its workers every after 2 weeks and 4 weeks respectively. If each female worker is paid sh.150,000 after every two weeks and each male worker is paid sh.250,000 every after 4 weeks respectively. Calculate the amount the factory pays its 12 female and 8 male workers each month. (4 marks)

26. Below is a cylindrical tin full of water. Study it and use it to answer the questions that follow.



a) Find the height of the tin. (2 marks)

b) Calculate the amount of water the tin holds when it is completely full. (3 marks)

27. a) Using a ruler, a pair of compasses and a pencil, construct a quadrilateral MNTV, where MN =TV = 8cm, NT = MV = 5cm and NMV = 45^0 (4 marks)

b) Measure the length MT. (1 mark)

28. Below is a time table of a Tausi bus company operating from Kampala to Ibanda. Use it to answer the questions that follow.

	Arrival time	**Departure time**
Kampala	.....	8:00 a.m.
Masaka	9:20 a.m.	9:30 a.m.
Mbarara	11:00 a.m.	11:30 a.m.
Ibanda	1:00 p.m.	.....

a) Find how long the bus takes to move from Kampala to Mbarara. (2 marks)

b) Workout the total time the bus spends at all the stopovers. (1 mark)

c) If the distance between Kampala and Ibanda is 260 km, calculate the bus's average speed for the whole journey. (2 marks)

29. The entry fee by the tourists at the source of the Nile is sh.10,000 per adult and sh. 5000 per child. One day, 55 tourists visited the place and a total of sh. 425,000 was collected. Find how many children visited on that day. (4 marks)

30. The interior angle of a regular polygon is twice its exterior angle.
    a) Calculate the number of sides the polygon has. (3 marks)

    b) Workout its interior angle sum. (2 marks)

31. A box full of 24 dozens of exercise books weighs 60kg. If each book weighs 200 grams,

a) In kilograms, find the weight of the empty box. (3 marks)

b) If each book is sold at sh. 1500, calculate how much money the seller will get from the sales of all the books? (2 marks)

32. The table below shows the marked price of different items in a certain supermarket. Use it to answer the questions that follow.

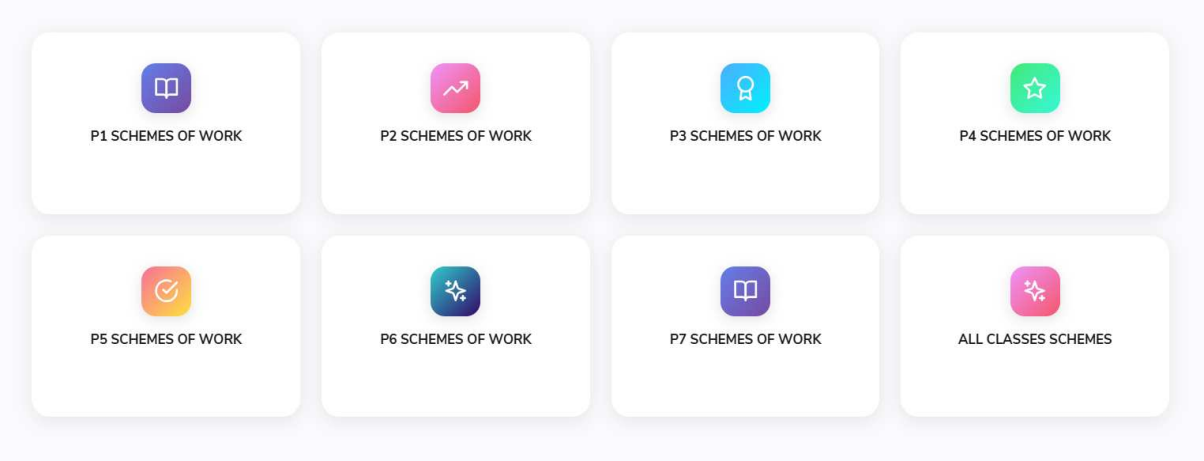
Item	**Marked price**
Flakes	Sh.4800 each packet
Noodles	Sh.6400 each packet
Rice	Sh.3800 each kg
Sugar	Sh.5600 each kg

a) If Bwaku bought 2 packets of flakes, 1 packet of noodles, $2\frac{1}{2}$ kg of sugar and 2500g of rice, calculate how much money he paid for all these items. (5 marks)

b) If he was given a discount of sh.500, find how much money he had at first. (1 mark)

END

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