

HORMISDALLEN SCHOOL - KYEBANDO
PRE-PLE SET 3 EXAMINATION, 2023
PRIMARY SEVEN MATH
Duration: 2 Hours 15 Minutes

NAME: _____ STREAM: _____

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SECTION A (40 MARKS)

Questions 1 to 20 carry two marks each

1. Workout: $231 + 45$

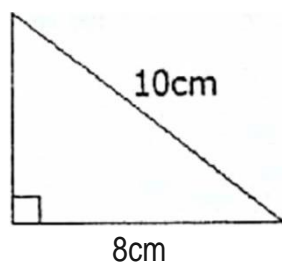
2. Write 6,342 in words

3. Solve for h: $2(h-4) = 12$

4. Given that $P = \{\text{all factors of } 12\}$. Find $n(P)$

5. A trader bought an item at sh. 3600. He later sold it at a profit of sh. 600. How much was his cost price?

6. Workout the distance around the figure below



7. Simplify: $7 - \sqrt{2}$

8. Find the LCM of 8 and 12

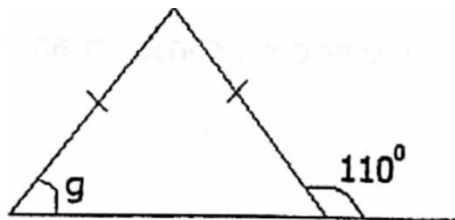
9. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30° in the space provided below

10. Find the average of $5r$, 14 and $(4r + 1)$


11. A car uses 2 litres of fuel to cover 5 kilometres. How much fuel is needed for the same car to cover 20 kilometres?

12. Using distributive property, workout: $(21 \times 13) + (13 \times 79)$

13. Find the value of g in the figure below



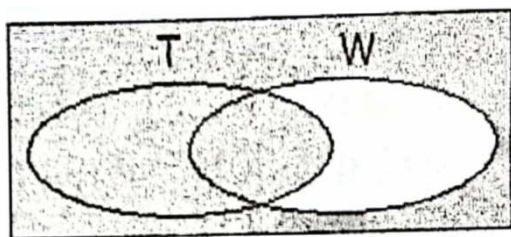
14. After covering $\frac{2}{3}$ of his journey, Mugoya still had 16km to go.
How long was his journey?

15. Given that  represents 6 balls. Draw pictures to represent 30 **balls**

16. A Mathematics examination that ended at 11:50a.m. took $2\frac{1}{2}$ hours. At what time did it start?

17. Workout: $3 + 4 = (\text{mod } 5)$

18. Describe the shaded region on the Venn diagram below.



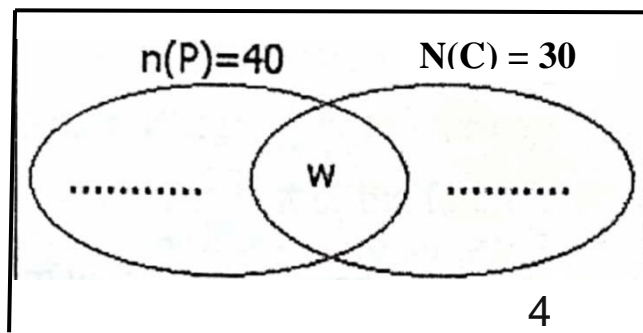
19. Work out: $\frac{2}{3} + 1\frac{1}{3}$

20. Ongom enters a race where he has to ride and then run. He rides for a distance of 25km and thereafter he completes the remaining 20km while running. The average speed he uses while running is half the speed he uses while riding. If he completes his race in $2\frac{1}{3}$ hours. Calculate the average speed he uses while riding.

SECTION B

21. In a class of 60 boys, 40 like potatoes (P), 30 like cassava (C), w boys like both potatoes and cassava while 4 like other foodstuffs.
- a) Use the above information to complete the Venn diagram below

$$n(\mathcal{E}) = 60$$



- b) Find the value of w. (3 marks)

22. a) Expand 6312 using powers of ten (2 marks)

b) Work out the sum of the value of 3 and place value of 2 in 6312. (3 marks)

23. A farmer harvested 300 bags of beans each weighing 100kg.
a) How many tonnes of beans did he harvest? **(3 marks)**

b) If the beans were later packed in 20kg bags for sell, how many bags were sold? **{2 marks}**

24. Bruno had bank notes numbered consecutively from EX00688 to EX00772.
a) How many bank notes did he have? **{2 marks}**

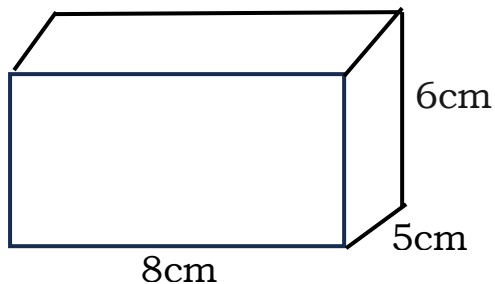
b) If each note was worth sh. 10,000, how much money was it?
(3 marks)

25. In a certain village, $\frac{1}{4}$ of the farmers grow rice. $\frac{2}{3}$ of the remainder grow coffee. The rest of the farmers grow beans. If those who grow beans are 140, find the total number of farmers in the village. **(4 marks)**

26. The sum of 3 consecutive odd numbers is 27. If the first number is r.
a) Find the value of r. **(3 marks)**

b) Calculate their range. **(2 marks)**

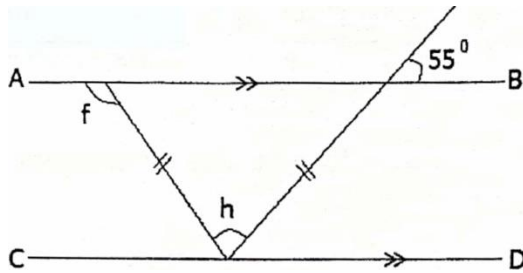
27. Below is a rectangular prism. Use it to answer the questions that follow



a) Calculate its base area. **(2 marks)**

b) Find its volume **(3 marks)**

28. In the diagram below: Line AB is parallel to line CD. Use it to answer the questions that follow.



- a) Find the value of h .

(3 marks)

- b) calculate the size of angle f

(2 marks)

29. a) Using a ruler, a pencil and a pair of compasses only construct triangle KLM in which angle $KLM = 45^\circ$, angle $KML = 60^\circ$ and side $LM = 6\text{cm}$.

(4 marks)

(b) Measure angle MKL

30. The table below shows marks scored by some pupils, study it and answer the questions that follow;

Marks	70	80	60	90
Number of pupils	4	2	3	1

a) How many pupils did the test? **(2 mark)**

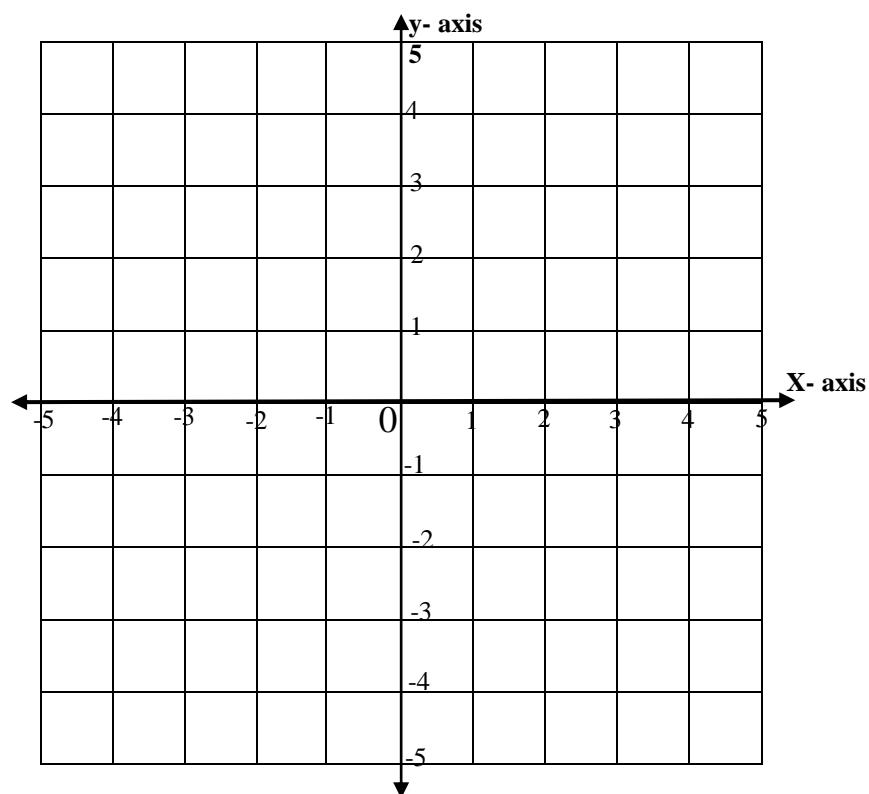
b) Find the modal mark. **(1 mark)**

31. Prince is 20 years older than Marvin. In 4 years' time, their total age will be 40 years.

a) How old is each now? **(3 marks)**

b) How old will Marvin be then? **(2 marks)**

32. a) Plot $W(-2, 3)$, $X(1, 3)$, $Y(4, -1)$ and $Z(-2, -1)$ on the grid graph below (4 marks)



- b) Join W to X , X to Y , Y to Z and Z to W . (1 mark)

- c) Find the area of the figure formed above. (1 mark)

END