



THE SPECTRUM EXAMINATIONS HUB
PRE END OF TERM THREE, 2024
ASSESSMENT: MATHEMATICS
CLASS: PRIMARY SIX
DURATION: 2HRS AND 30 MINUTES

PUPIL'S NAME:

SCHOOL NAME:

DISTRICT NAME:

Read the following instructions carefully:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagrams.
6. No calculators are allowed in the examination room.
7. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the table indicated; "For examiners' use only" and the boxes inside the question paper.

FOR EXAMINER'S USE

QN. NO.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A (30 marks)

1. Add:

$$\begin{array}{r} 5 \quad 6 \\ + 4 \quad 2 \\ \hline \\ \hline \end{array}$$

2. Given that set **P** has 3 members. How many subsets are in set **P**?

3. Find the value of 9 in the number 7962.

4. Simplify: $\frac{2}{3} + \frac{1}{4}$

5. Nanungi scored the following marks in a series of homework 8, 6, 7, 8, 4, 9. What was her median score?

6. Multiply: 1.2×0.6

7. Solve for y : $3^{y+1} = 27$

8. Mr. Nyakito's salary of shs. 500,000 was increased in the ratio of 6:4. Find his new salary.

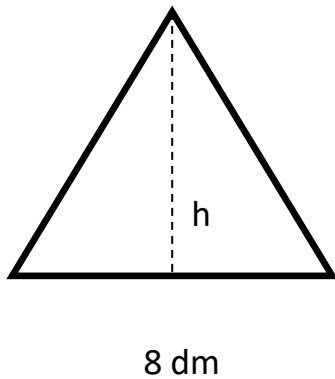
9. Using a ruler, a pencil and a pair of compasses only, construct an angle of 45° .

10. In a bag containing 6 mangoes and 8 oranges, what is the probability of picking an orange from the bag at random?

11. Given that the cost of 8 plates is shs. 4800. What is the cost of 4 similar plates?

12. Using distributive property, work out
 $(2 \times 80) + (20 \times 2)$

13. The area of the figure is 36dm^2 . Find the value of h .



14. What is 40% of 20,000 shillings ?

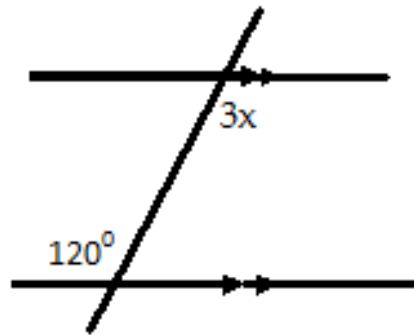
15. Solve for y

$$32_y = 43_{\text{five}}$$

16. Oboth covered a ceratin distance at a speed of 130km/hr for 1½ hrs. Calculate the distance.

17. Represent 212_{three} on an abacus.

18. Use the figure below to find the value of x .



0

19. What is the smallest number of oranges that can be shared among 9 or 12 girls leaving a remainder of 7 oranges?
20. Express 74562 in standard or scientific notation.

SECTION B

21. (a) Simplify : $\frac{1.6 \times 0.9}{0.4}$

(b) Given that John ate $\frac{3}{4}$ of the Sugarcane and gave $\frac{1}{2}$ of the remainder to his sister Jane.

What fraction of the sugarcane did Jane eat?

22. Using a ruler, a pencil and a pair of compasses only, construct a triangle PQR such that $\angle PQR = 60^\circ$, $\angle QRP = 45^\circ$, and $QR = 7\text{cm}$.

Measure

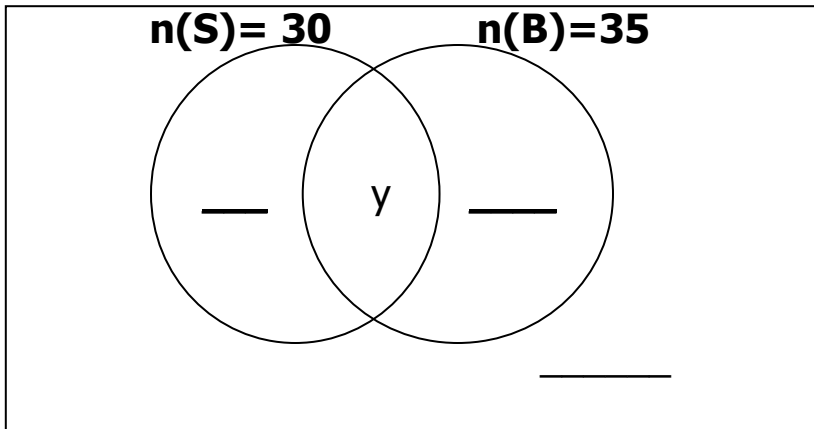
(i) \overline{PQ}

(ii) $\angle QPR$

23. At a graduation party attended by 60 guests, 30 guests took Soda (S), 35 guests took Beer (B), y took both drinks while 3 did not like any of the two drinks.

a) Show the above information on the venn diagram below.

$$n(\Sigma) = 60$$



b) Find the value of y .

b) If a guest was picked at random to be the chief guest. What is the probability of picking a guest who likes only one drink?

24. Mr. Mukalazi shared shs. 20,000 among his three daughters: Clara, Diana and Abigail in the ratio of 2: 5: 3 respectively. How much money did each daughter get?

c) How much more did Diana get than Clara?

25. The shopping bill below shows Mr. Olapo's expenditure.

ITEMS	QTY	UNIT COST	AMOUNT
SUGAR	3kgs	Shs. 4500	Sh. ____
COOKING OIL	____litres	Shs. 4000	Sh. 12000
POSHO	4 kgs	Shs. ____	Sh. 8,000
TOTAL EXPENDITURE			Sh. _____

a) Complete the above shopping bill by clearly showing your working.

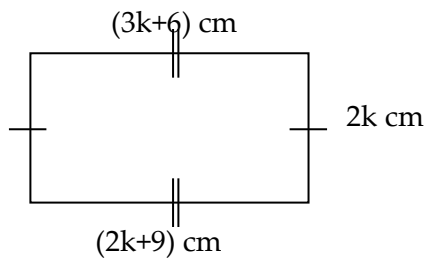
b) If he had shs. 50,000, what was his change?

26. At Balawo Primary School, two bells are rung at intervals of 30 minutes and 40 minutes respectively to change lessons for lower and upper primary.

a) After how many hours will the two bells be rung together again?

b) If they were first rung together at 8:15 a.m. At what time will the two bells be rung together again?

27. The diagram below is a rectangle. Study the figure and use it to answer the questions that follow.



a) Find the value of K .

b) Calculate the length and width of the rectangle.

c) Calculate its area.

28. Complete the magic square below by finding the values of the letters.

7	m	5
n	4	6
3	r	t

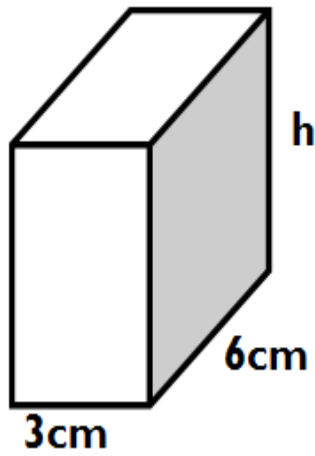
a) **m**

b) **n**

c) **r**

d) **t**

29. Given that the volume of the cuboid below is 180cm^3 . Use it to answer the questions that follow.



a) Find the value of h.

b) Calculate its total surface area if the top cover was removed.

30.(a) Solve : $4(y - 2) = 12$

b) If $x = 4$ and $y = 5$.

Evaluate

(i) $2y + 3x$

(ii) $2x - 2y$

31. In a class of 200 pupils, 60% are boys, and the rest are girls.

a) Find the percentage for girls.

b) Find the number of boys in that class.

c) How many more boys than girls are in the class?

32. The table below shows some P.6 pupils who did a test in Mathematics. Use it to answer the questions that follow.

Marks	60	70	50	80
No. of pupils	3	2	4	1

a) How many pupils did the test?

b) Find

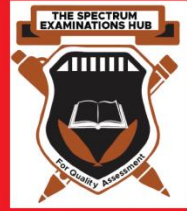
(i) Median score

(ii) Average

(iii) Range

END

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