



PERFECT EDUCATION SERVICES - KAMPALA
PRIMARY SEVEN SPECIAL PLE EXAMINATION

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

EMIS No.						Personal No.		

Candidate's Name

Candidate's Signature

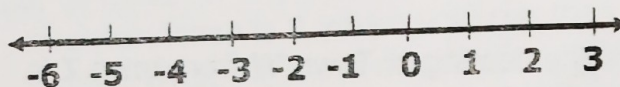
EMIS Number

District Name

SECTION: A

1. Work out: $1000 - 24$.

2. Workout $-3 - -5$ using the number line below.



3. Express 10m/sec into km.hr

4. With a help of **ruler**, **pencil** and a pair of **compasses** construct an angle of 105° .

5. Express 0.2333 as a common fraction.

6. Write a quarter of **ten o'clock** in the morning in figures.

7. Given that $x = 4$ and $y = 6$, find the value of $x(x - y)^2$.

8. Find the number whose scientific notation is 7.031×10^{-3} .

9. Draw a venn diagram to show the relationship $K \cap L = K$

10. Amos bought a dozen of pens at **sh. 6000**. He later sold each pen for **sh. 800**. Calculate the profit Amos made.

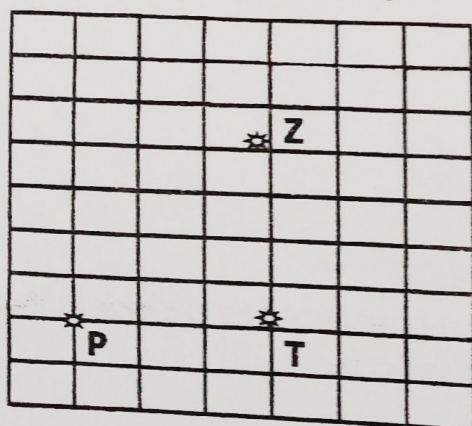
11. The perimeter of a square is 3.6m , workout its area.

12. Roundoff **9948** to the nearest hundreds.

13. The bearing of Town **W** from town **Z** is 105° . What is the bearing of town **Z** from town **W**?

14. Aminah has **sh. 1000** notes numbered from **AQ502830** to **AQ502839**. How much does she have

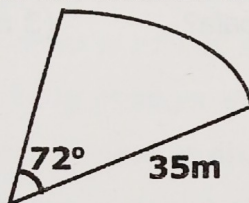
The figure shows a square unit grid.



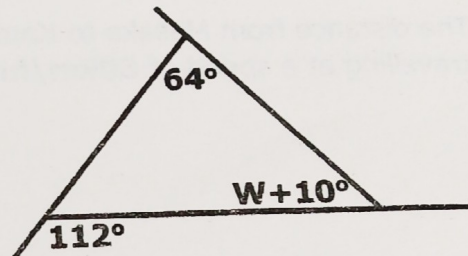
15. How many units is the shortest distance from **P** to **Z**?

16. In a class of **40** pupils, $\frac{3}{8}$ of them are girls. If $\frac{1}{5}$ of the boys are absent, how many boys are present?

17. The figure shows a map of a field.
Calculate the distance around the field.



18. Work out the value of **w**.



19. From a supermarket, Maria bought **33_{five}** books and John bought **25_{six}** books. How many more books did Maria buy than John?

20. If Ochan is **w years** today, and his sister Achan is **2 years** younger than him. What will the sum of their age be in **7 years'** time?

SECTION B

21a. Solve for **m**: $\frac{2}{7}(7m + 14n) + \frac{2}{9}(18m - 36n)$

(3 marks)

- b) Amebe is three times as old as his sister Rose. The product of their age is **48** years.
How old is Rose. (3 marks)

22a. The distance from Masaka to Kampala is **120 km**. A bus left Masaka at **11:45a.m** travelling at a speed of **60km/hr**. when did the bus reach Kampala? (3 marks)

- b) A lorry took 6 hours travelling from Kampala to Mbale at an average speed of **40km/hr**. how much longer will the lorry take if it travels back at an average speed of **30km/h**? (3 marks)

23a. Solve for **n**: $2n - 1 = 4$ (Finite 5)

(2 marks)

b) Today is Tuesday 15th August 2024, what day of the week will it be on the 18th October 2024 (3 marks)

24. Okia bought the following items

2 loaves of bread at **sh. 7500** each loaf

3 litres of milk at **sh. 1500** per litre

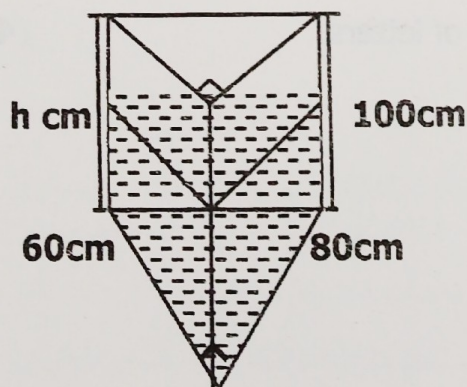
1 $\frac{1}{2}$ kg of sugar at **sh. 2400** each kg

4 kg of meat at **sh. 9500** each kg

500gm of salt at **sh. 600** per kg.

If Okia had a **fifty thousand shillings note**, how much debt will Okia have to pay later? (6 marks)

25. The triangular water tank below is $\frac{1}{3}$ full of water. Use it to answer the questions that follow.



a) How many litres of water are in the tank? (2 marks)

(3 marks)

b) Workout the height of the tank when full of water.

26a. Simplify: $0.75 - 0.045 + 0.55$

(2 marks)

b. Tap **A** take **6 minutes** to fill a tank of water. And tap **B** takes **k minutes** to draw water out of the tank. If both taps takes **24 minutes** to fill the tank, how long does **tap B** take to empty the tank? (3 marks)

27. Study the magic square below and find the value of letters.

(4 marks)

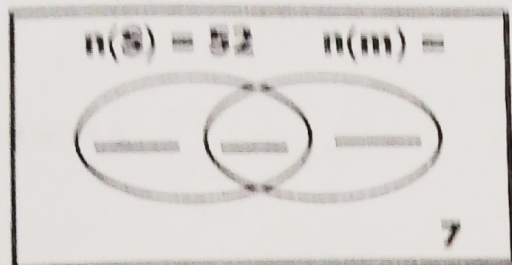
8	3	x
t	5	9
y	n	2

28. At a birthday party, 70 guests were invited, 52 were served with sodas (S), y were served with mineral water (m), y while 7 did not take any of the two drinks and 13 were served with both drinks.

a. Represent the above information on the venn diagram below.

(3 marks)

$$(I) = 70$$



b) Find the value of y .

(2 marks)

29a. Use the distributive property to workout $(125 \times 3.5) - (25 \times 3.5)$

(2 marks)

b) Simplify: $\frac{36p^3a^2}{9a^2p}$

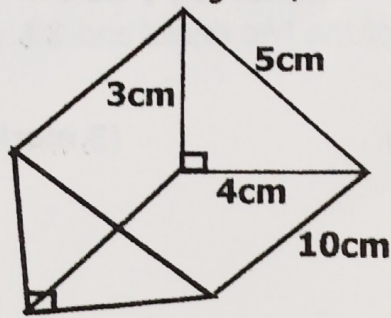
(2 marks)

30. Given that $y = 2x + 1$, complete the table below.

(5 marks)

x	0	_____	4	_____	7
y	_____	5	_____	11	_____

31. Use the triangular prism below to answer the questions that follow.



a) Find the sum of the length of all its edges.

(3 marks)

b) Find the volume of the triangular prism.

(2 marks)

32. Using a pencil, ruler and a pair of compasses only, construct rhombus **PQRS** such that **PQ = 6cm** and diagonal **PR = 10cm**.

(4 marks)

b) Measure the size of angle **PQR**.

8

(1 mark)