

PERFECT EDUCATION SERVICES - KAMPALA PRIMARY SEVEN MOCK SET TWO EXAMINATION 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

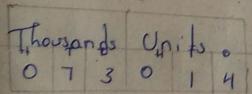
EMIS No.						Personal No.		
1	1	0	2	2	2	0	a	2

Candidate's Name PACIFI. 6	UE. SHAKA
Candidate's Signature You	tique. Shalla
EMIS Number	hour.is.m. City
District Name . Fort. partal.	hours, s.m. Cit
1. Workout: 54 - 23 .	SECTION A
2. Workout. 54 = 23.	2. Solve: 2y - 3 = 7

54 - 23 5 4 - 2 3 3 1

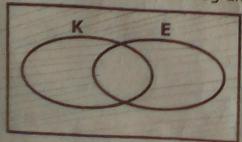
1. 54-23:31

3. Write: "Seventy three thousand, fourteen" in figure.



= 73014

5. Shade $(K \cap E)^1$ in the venn diagram.



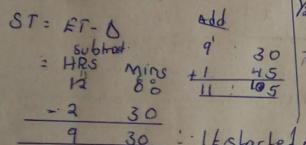
ON A

2. Solve:
$$2y - 3 = 7$$
 $2y - 3 = 7$
 $2y - 3 = 7$
 $2y - 3 = 7$
 $2y = 10$
 $2y = 1$

7. Find the lowest common multiple (LCM) of 18 and 12.

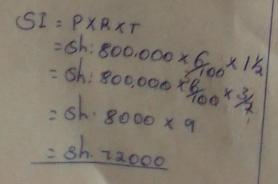
રવ	1	18	12	
57	2	9	6	1-
432	2	9	3	(2 X 2 X 8 X 3)
253	3	3	1	
20	3	1		= 36

- - 9. An examination which ended at 1:45pm lasted for 2 hours and 30 minutes. At what time did it begin?

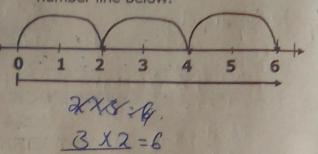


11. The interior angle of a regular polygon is 108°. How many sides does the polygon have?

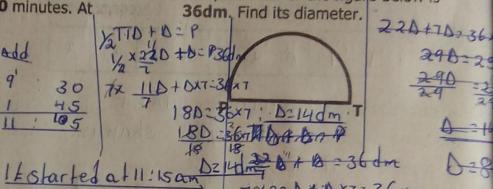
- Ne of sides
- 13. Baguma borrowed sh, 800,000 from the bank that charges a simple interest rate of 6% per annum. Calculate the interest Baguma paid after the 1 year 6 months.



8. Write a mathematical statement for the number line below.



10. The perimeter of the figure below is



7X22 D# DX7: 36 X7 12. Below are the heights of some seedlings in SSeremba's nursery bed. 15cm, 70cm, 20cm, 50cm, 30cm and 70cm. calculate the range of heights of the seedlings.

eights of the seedlings.

R:
$$H - L$$
 $= 70 \text{ Gm} - 15 \text{ cm}$
 $= 55 \text{ cm}$

14. Use distributive property to work out:

Six counter books cost sh. 18,000. How many counter books will be bought with sh. 12,000?

books > sh! 18.000 1 book > sh: 18,000

=300 ashillings sh 112000 -> sky 12 000

= 4600Ks M is a set with 15 proper subsets. Find n(M)

no of proper subsets = (2n)-1

15=21-1 15+1= 2n -1+1

16 = 2n

What must be added to 2y + 5 to get

3y - 2?

Let that number be k.

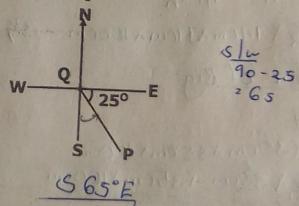
K+2y+5=3y-2 K = (3y -2) -(2y +5) 16. Express 197 in Roman numerals.

100 + 90 +7 197 = CXC VII

18. Express 12:15 am in 24hour clock system.

> 12:15 am 1200 0015 = 0015 hours

20. In the figure below, find the direction of P from O.



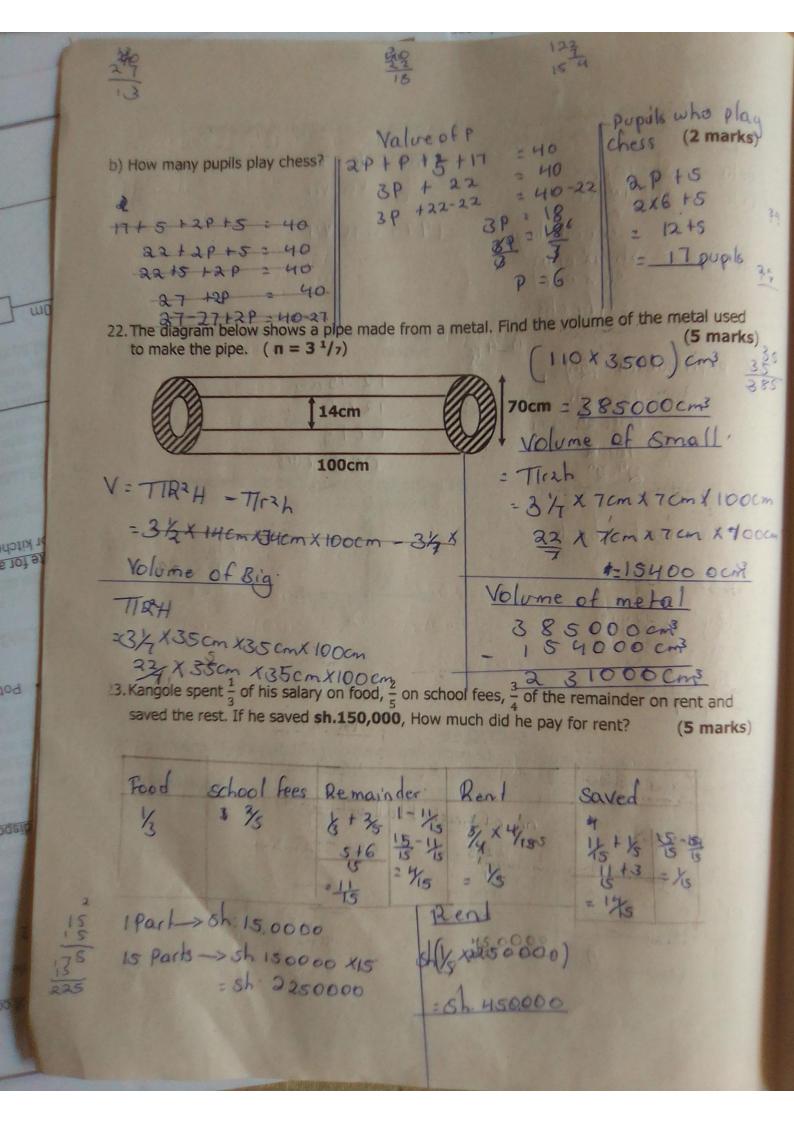
(3 marks)

SECTION B

In a class, 22 pupils play basketball (B), 2P pupils play chess only (C), 5 pupils play both basketball and chess while P pupils play neither of the two games. se the information to complete the venn diagram.

 $n(\epsilon) = 40$

n(B) = 22n(C) = ne of basket ball only 225



Using a pair of compasses, a ruler and a pencil only, construct a rhombus PQRT where $QRT = 135^\circ$, $\overline{QR} = 5.5cm$. Drop a perpendicular from P to meet line QR at point K.

Measure length PK.

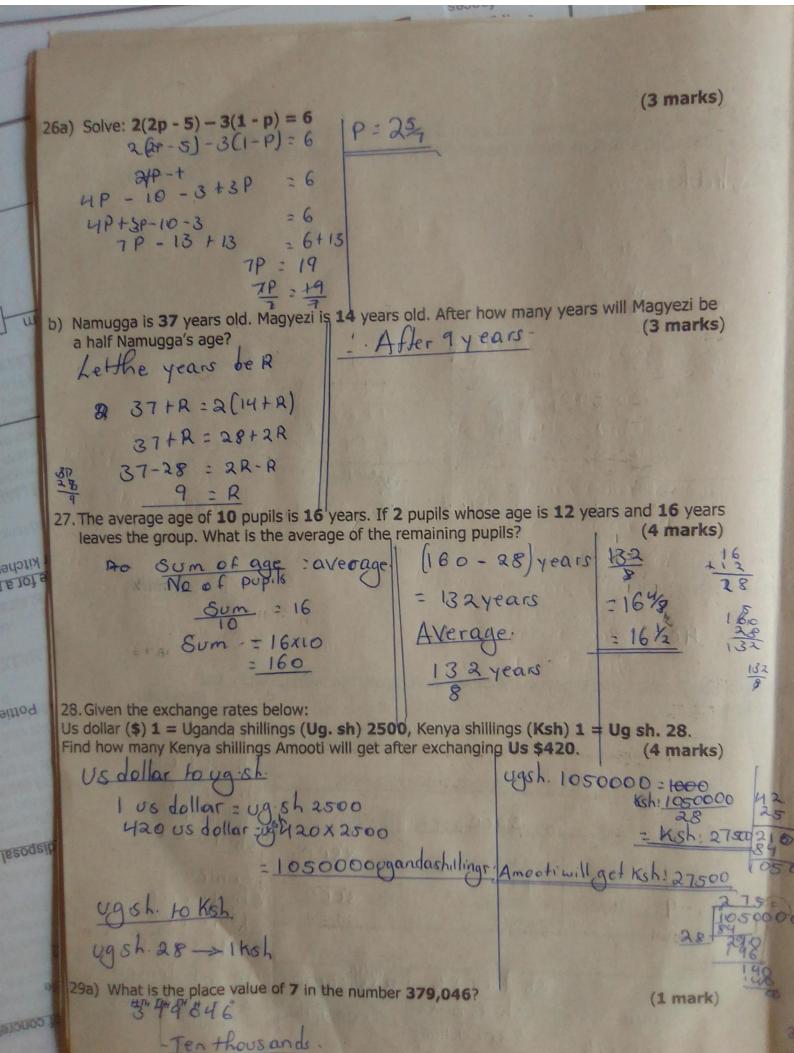
5

Hcm:

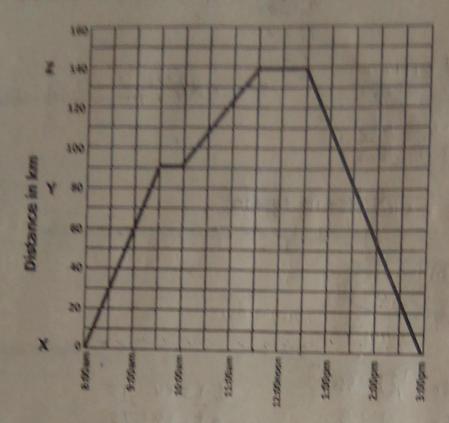
Malinzi bought the items shown in the table below. Study the table carefully and complete it. (5 marks)

Item	Cost	Total cost	Total
A loaf of bread	Sh. 4400 each loaf	Sh. 4400	8h: 2800
1 ½ kg of sugar	Sh. 5200 per kg	Sh. 7800	sh! 7800
2 litres of milk	Sh. 1400 a litre	Sh. 2800	tsh: 15000
9 lemons	Sh.1000 for 3 lemons	Sh. 3000	hemon. Sh: 18000
Total		Sh. 18,000	Sh! 15000
Sogar	sh 1800x3	वर्डि: 1400	ne of lemon
Sh: 7800 = 14 6h: 7800 = 3	= 5200shillings	= 2800shillings	sh 1000 x3
Oh. 7800-3			= 3×3
作。 29、多片 20年,31世前以北京	TO MAKE THE SALE OF THE PARTY O		= 9

(1mark)



b) Change 39 to binary base. (2 marks) 2 39 = 20111 huo c) Expand 2058 using powers of 10. (2 marks) ाठे १६ १०, १०, 8 205 17 (2x13) + (0x10) + (5x10) + (8x10) 30. Study the venn diagram below carefully and use it to answer questions that follow. PF 60 PF 75 19. a. Find the value of: (i) g (ii) (2 marks each) 2 x 22 x3, x9:60 129 =60 3, X5XV=75 2 X 2 X 3 X 9 = 60 9 = 5 3 X 5 X V : 75 b. Workout the **HCF** of **60** and **75** 15V275 (2 marks) 3, X5, 3 X 5 V = 52 = 15 31. In the diagram below, PQR is an isosceles triangle and angle QPS = 80°. 21 1100 Find the value of: (I) a (ii) b (2 marks each) a + a +70 = 180° 2a+70-70:186° 3588 32. The travel graph below shows the journey of a motorist from town **X** to town **Z** via town **Y** and back to town **X**. Study it carefully and use it to answer the questions that follow.



a) At what time did the motorist reach town z?

(1 mark)

Al 11:30am.

b) For how long did the motorist stop on the way?

For sommuter 1 00 1hour +30 minutes 1:50

(2 marks)

c) Calculate the average speed of the motorist for the whole journey.

(2 marks)

T.T.T 31/2 + 31/2 = 7 hours