SACU NURSERY & PRIMARY SCHOOL

END OF TERM III EXAMS - 2022

MATHEMATICS - P.6

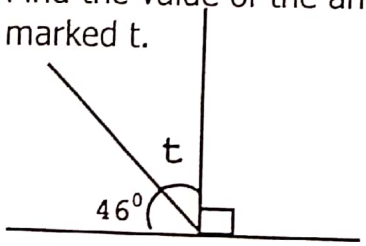
Name: .....

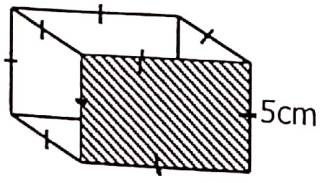
INSTRUCTIONS:- Attempt all questions.
- All working must be shown.
- Any drawing must be done in pencil.

FOR EXAMINER'S USE ONLY

SECTION A		Total (%)
SECTION B		

SECTION A(40mks)

1.	Work out: $\begin{array}{r} 7\ 5 \\ +\ 1\ 1 \\ \hline \end{array}$	2.	Write, "twenty-one thousand twenty-six," in digit form.
3.	Write the place value of **2** in 321_{five}	4.	Express **LXXVII** as a Hindu Arabic numeral.
5.	Use the formula $n(\frac{n+1}{2})$ to find the **5th** triangular number.	6.	Increase **sh.10,000** in the ratio of **7:5**.
7.	Find the value of the angle marked t. 	8.	Calculate the time taken by a cyclist travelling at a steady speed of **20km/hr** to cover a distance of **80km**.

9.	Fill the **next two** numbers in the sequence below. 4, 6, 8, 9, _____, _____	10.	Set **R** is aset of all vowel letters. List down all elements of set **R**.
11.	**Work out;** (7 x 5) + (12÷3)	12.	Find the additive inverse of **−2**.
13.	**Simplify**: $5x + 10x - x$	14.	Round off **9846** to the nearest hundreds.
15.	Express $\frac{3}{4}$ as a decimal fraction .	16.	Aine is the **ninth** girl in the line for girls from either side, how many girls are in the line?
17.	Find the area of the shaded face.  	18.	If **PFn={ 2_1, 2_2, 3_1}.** Find the value of n.

19.	Sam bought $2\frac{1}{2}$kg of meat, how many grams did he buy?	20.	In a box of **24** pens, **13** of them are red and the rest are blue. Find the probability of picking a blue pen from the box at random.

SECTION B (60 marks)

(Marks for each question are indicated in the brackets.)

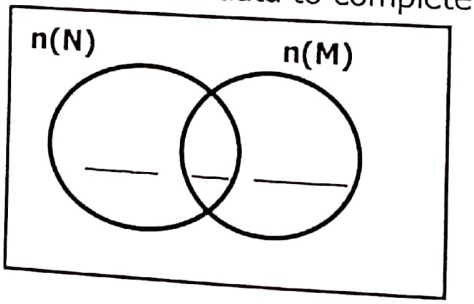
21. Given $(2x10^3) + (5x10^2) + (7\ x10^1)$.

a) Write the expanded numeral above as a single numeral. ***(2marks)***

b) Find the sum of the value of **2** and place value of **7** in the above numeral. ***(3marks)***

22. Given that **n(N)= 20**, **n(M) =30** and **n(N∩M)=8.**

a) Use the above data to complete the Venn-diagram below. ***(3marks)***



b) Find n(NUM) *(2marks)*

23a) **Work out:** $2\ 1\ 3_{\text{five}}$
$+\ 2\ 2_{\text{five}}$

b) Work out the value of the unknown base in $\mathbf{23}_x = \mathbf{13}$ *(3marks)*

24. Using a pair of compasses, a ruler and a pencil only.

a) Construct triangle $\overline{LEG}$ such that $\angle ELG = 60^0$, $\overline{LE} = 5$cm and $\overline{LG} = 6$cm. *(4marks)*

b) Measure the size of angle $\angle LEG$. *(1mark)*

25. Mr. Mutege borrowed **sh.360,000** from Centenary Rural Development Bank at an interest rate of **10%** per annum.

a) How much interest will he pay after 2 years? ***(3marks)***

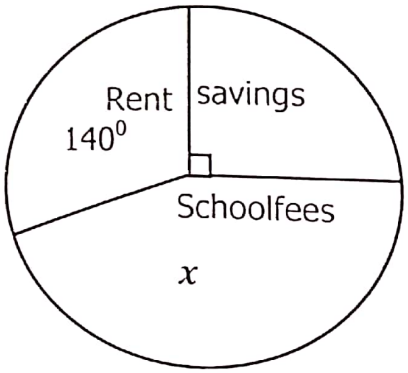
b) What amount will he pay after **2** years? ***(2marks)***

26. At Mwiru P/S, two bells are rung at intervals of **30** minutes and **40** minutes respectively to change lessons.

a) After how many hours will the two bells be rung together again? ***(3marks)***

b) If they were first rung at **8:30a.m**, at what time will they be rung together again? ***(2marks)***

27. **The circle graph below shows how Agnes spends her monthly salary worth sh.720,000.**



a) Find the value of x. ***(2marks)***

b) How much does she spend on rent? ***(2marks)***

c) How much more does she spend on school fees than savings? ***(2marks)***

28. Given that **t = 5,** x **= 4** and **y = 6.** Find the value of;

a) x + y ***(1mark)***

b) $\frac{x\ y}{t-2}$ ***(2marks)***

c) xt + y ***(2marks)***

29 .Mr. Opio has banknotes numbered from **AX007700** to **AX007799.**

a) How many banknotes does he have? ***(2marks)***

b) If each banknote is worth **1000** shillings in value, how much money does he have? ***(2marks)***

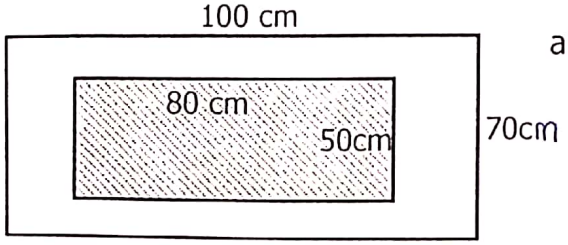
30a) Work out:

Hours	**Minutes**
4	50
+ 1	30

(2marks)

b) A driver takes **3** hours to travel from Kampala to Masaka at a speed of 80km/hr and spends only **2** hours to return through the same distance. Calculate the average speed for whole journey. ***(3marks)***

31. A rectangular carpet measuring **80cm** by **50cm** was laid on a floor measuring **100cm** by **70cm** as illustrated below.

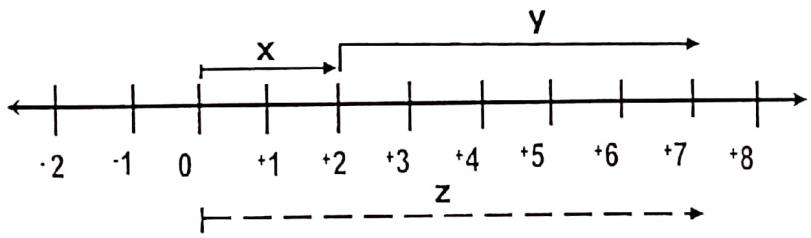


a) Find the space occupied by the carpet ***(2mks)***

b) Work out the **area** of the rectangular floor. *(2marks)*

c) Find the area of the space not covered by the carpet. *(2marks)*

32. Use the numberline below to answer the questions that follow.



a) Write the integers represented by; *(3marks)*

i) X ii) y iii) z

b) Write the mathematical statement describing the expression above. *(2marks)*

END