CENTENARY EDUCATIONAL CONSULT
PRE-MOCK ASSESSMENT - 2024
PRIMARY SEVEN
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No:	Random No.						Personal No.		

Candidate's Name:.....

School Name: .....

School Emis No:.....

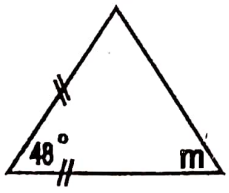
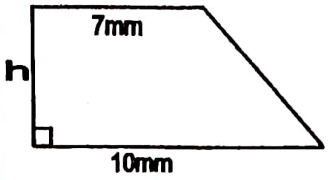
Candidate's Signature:.....

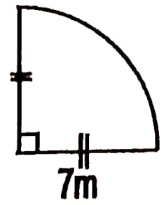
Read the following instructions carefully:

1. Section **A** has **20** questions **(40 marks)**
2. Section **B** has **12** question **(60 marks)**
   Attempt **ALL** questions.
   All answers to both sections **A** and **B** must be written in the spaces provided.
3. All answers **MUST** be written using **blue** or **black** ball – point pen or **ink**. Diagrams should be drawn in **pencil**.
4. Unnecessary **changes** of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to **loss** of marks.
6. Do not fill anything in the boxes indicated **"For examiner's use only".**

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: (40 Marks)

1.	Workout: **36 x 4**	**2.**	What number has been expanded to give $(4x10^0) + (8x10^1) + (6x10^{-2})$?
3.	Given that **P = {a, e, i, o, u}** and **Q = {d, e, a, m}**. Find **n(PUQ)**	**4.**	Subtract **2x – 4** from **3x – 3**.
5.	Find the size of angle marked **m** in the figure below. 	**6.**	Mary bought **1500gms** of salt. Express the quantity in kilograms.
7.	Change 23_{ten} to base **three**.	**8.**	A church service that took **1** hour and **45 minutes** ended at **1:15p.m.** At what time did the service begin?
9.	Find the next number in the sequence. **3, 6, 7, 10, 11, _____**	**10.**	The area of the figure below is **51mm²**. Find the value of **h**. 

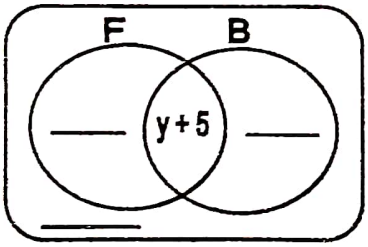
11.	A businessman sold a watch at **sh.24000** making a profit of **sh.4000**. Calculate his percentage profit made.	**12.**	Workout **(2.4 x 75) – (2.4 x 35)** using distributive property.
13.	Express **40m/s** as **km/hr**.	**14.**	Ten men can dig a piece of land in **5 days**. How many more men can dig the same piece of land in **2** days?
15.	Find the perimeter of the shape below. ($\pi = \frac{22}{7}$) 	**16.**	Correct **14.995** to two places of decimal.
17.	Find the average of **4k – 3**, **18** and **5k**.	**18.**	A candidate tossed a dice once, what is the probability that a factor of **6** appeared on top?

19.	Find the highest number of boys that can share **24 eggs** or **36 eggs** equally leaving no remainder.	**20.**	A regular polygon has **14 right** angles. How many sides has the polygon.

SECTION B (60 Marks)

21. In a certain class, **22** pupils play **football (F)** but not **Basketball (B)**, **(y + 10)** play **basketball only**, **(y + 5)** play both games while **4 pupils** play other games.

(a) Use the information to complete the venn diagram below. **(3marks)**



(b) If **25** pupils play Basketball, find the value of **y**. **(2marks)**

(c) How many pupils dislike football? **(1mark)**

22. Janet deposited a bundle of bank notes numbered from **CB0064904** to **CB0065003**.

(a) How many notes did she deposit? **(2marks)**

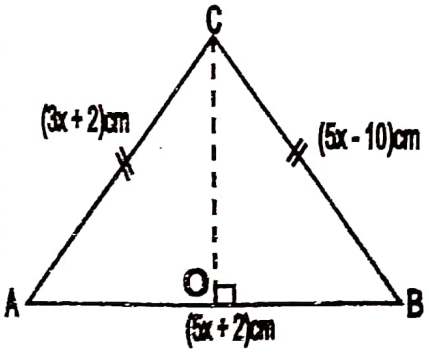
(b) If each note is worth **sh.5,000**, calculate her simple interest if the bank offers a rate of **8%** per annum for **18months**? **(3marks)**

23. Given the digits **7, 9, 0** and **3**.

(a) Write the largest and smallest 4-digit numerals that can be formed from digits above. (2marks)

(b) Express the largest numeral formed in standard form. (2marks)

24. **Study the triangle ABC below and use it to answer the questions that follow.**



(i) Find the value of **X**. (2marks)

(ii) Workout the area of the triangle. (4marks)

25. **Florence went with two-twenty thousand shilling notes to a shop and bought the following items.**

1750gms of maize flour at sh.3600 per kg.

$\frac{1}{4}$ litres of paraffin at 1200.

2kg of Rice each at sh.4200.

$1\frac{1}{4}$kg of sugar at sh.4800 per kg.

1000gms of Meat at sh.6000 per 500gms.

(a) Calculate her total expenditure. (5marks)

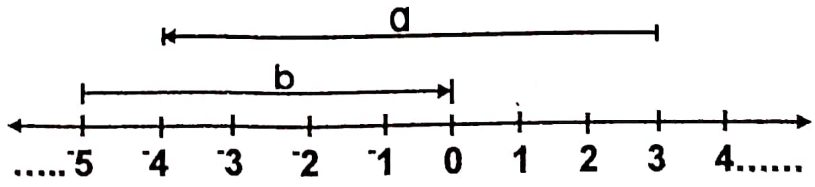
(b)	Find her change.	**(1mark)**
26.	Using a ruler, a pair of compasses and a pencil only, **(a)** Construct parallelogram **MALE** such that line **MA = 7.5cm**, **AL = 5cm** and angle **MAL = 120^0**.	**(4marks)**
	(b) Drop a perpendicular bisector from point **L** to meet line **MA** at **0**.	**(1mark)**
27.	**(a)** Solve and state the solution set for the inequality **$^-$4 ≤ 2n – 4 ≤ 6**	**(3marks)**
	(b) Nambozo is **5** years older than Namataka. If their total age is **37** years. How old is Nambozo?	**(3marks)**

28. (a) A drum was $\frac{3}{4}$ full of water. When **40litres** were sold, it became $\frac{1}{3}$ full of water. What is the capacity of the drum? **(3marks)**

(b) Express **0.1666**.....as a common fraction. **(2marks)**

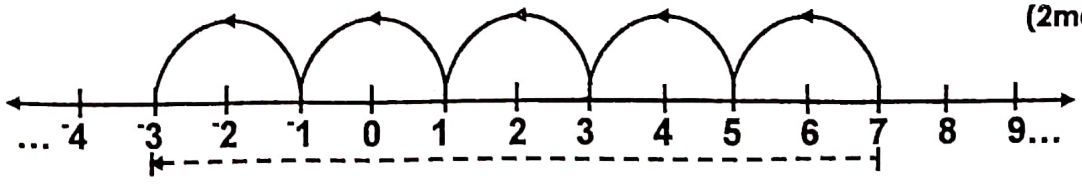
29. A printer prints abook of **400** pages in just **5minutes**. If it prints **15** pages more each minute, how many pages does it print in the fifth minute? **(4marks)**

30. (i) Write down the integers represented by the arrows below. **(2marks)**



a = _____ b = _____

(ii) Write the mathematical statement shown on the number line below. **(2marks)**



31. A taxi left Kampala for Jinja at a speed of **72km/hr** and covered a distance of **90km**. The taxi then took **90minutes** on its return journey to Kampala. Find the average speed of the taxi for the whole journey. **(4marks)**

32. Use the linear equation **2x = y + 1** to complete the table below correctly. **(5marks)**

X	**-1**	_____	_____	**2**	_____
Y	_____	**5**	**-1**	_____	**0**

THE END