

MWALIMU EXAMINATIONS BUREAU

PLE RESOURCE PRE-MOCK EXAMINATIONS – 2022

P.7 MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No:

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Candidate's Name:

Candidate's Signature:

School Name:

District:

Read the following instructions carefully:

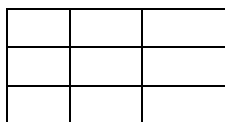
1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY

FOR EXAMINERS USE ONLY		
Qn. No	MARKS	SIGN
1 - 10		
11 - 20		
21 - 30		
31 - 32		
TOTAL		

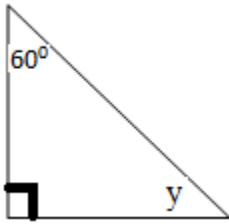
SECTION A (40 MARKS)

1. Subtract: 0.5 from 5.
2. Work out: $\frac{1}{3} + \frac{1}{4}$
3. Write “Forty three thousand, one hundred thirty six” in figures.
4. Find the next number in the sequence 2, 3, 5, 7,,
5. Find the square of 36.
6. Set R has 15 paper subsets, how many elements are in set R?
7. Write XCIX in Hindu Arabic numerals.
8. Simply: $^{-}3-^{+}5$
9. Express: 0.00796.
10. Shade $\frac{2}{3}$ of the figure below.



11. If today is Saturday, what day of the week will it be after 124 days from today?
12. Find the mean of $2x$, 14, $6x$ and 6.

13. Find the value of y .



14. Solve and find the solution set for $3 \leq 2x - 1 \leq 9$

15. Express 54km/hr. to metres per second.

16. A wheel has a radius of 14cm, what distance does it cover in 50 revolutions?

17. Calculate the simple interest on Shs30, 000 for 9 months at 10% per annum.

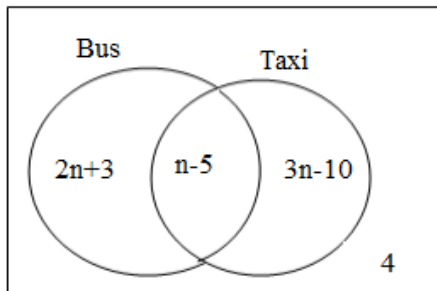
18. Work out: $(63 \times 45) + (37 \times 45)$ using distributive property.

19. Given that $104_x = 40_{\text{ten}}$. Find the value of x .

20. The base area of a rectangular tank is 1500cm^2 and its height is 40cm. Calculate its volume in litres.

SECTION B (60 MARKS)

21. The Venn diagram below shows the number of passengers who travel by Bus (B) or by Taxi.



If 23 passengers do not travel by Taxi

(a) Calculate the value of n **(3 marks)**

(b) How many passengers travel by bus only? **(1 mark)**

(c) If a passenger is picked at random, what is the probability of picking one who travels by taxi only? **(1 mark)**

22. (a) Simply: $\frac{0.17+0.31}{0.4 \times 0.3}$ **(3 marks)**

(b) Simply: $\frac{1}{2} - \frac{1}{3} + \frac{1}{4}$ **(2 marks)**

23. The cost one counter books is Shs $(x + 1000)$ and the cost of one pickfare mathematical set is Shs $(x - 3000)$. If Babirye paid Shs 21,000 for 3 pickfare mathematical sets and 2 counter books,

(a) Find the value of x . **(3 marks)**

(b) How much did she pay for all the three mathematical sets? **(2 marks)**

24. The table below shows the pair of shoes sold daily in Nakasero market by a certain trader.

Mon	Tues	Wed	Thur	Fri	Sat
12	6	K	3K	K+5	7

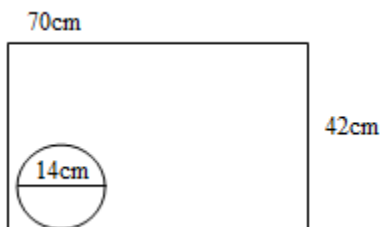
(a) If he sold an average of 15 pair of shoes in all the six days, find the value of K.

(3 marks)

(b) How many more pair of shoes did he sell on Thursday than on Friday? **(2 marks)**

25. The bus leaves Gulu at 8:00am and travels at 60km/hr for 2hours. The driver rests for 30 minutes. He then continues for another $1\frac{1}{2}$ hours at 40km/hr until he reaches Mbale. Calculate his average speed for the whole journey. **(5 marks)**

26. The rectangular manila cards measures 70cm by 42cm. circular cards of radius 7cm are to be cut out of the manila card as shown below.



- (i) How many circular cards will be cut out of the manila card? **(3 marks)**
- (ii) Find the area of the manila card that will be wasted. **(2 marks)**
27. Nsubuga has two sons. If his son is half his age and the second son is a third of his age, find the ages of the two sons when the total ages of the two sons is 40 years. **(5 marks)**

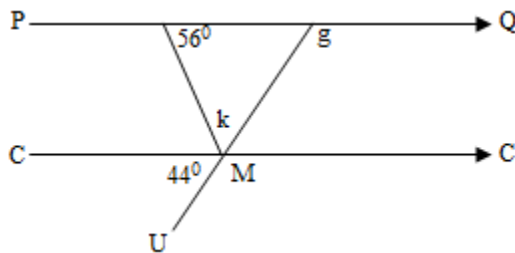
28. Study the exchange rates in the table below and answer the questions that follow.

Currency	Buying	Selling
1US dollar	3,600	3,650
1EURO (€)	4,000	4,020
1 Rwanda franc	4	5

(a) How many Euros did Namboze get for Ug.Shs 603, 000? **(2 marks)**

(b) Ms. Mutoni came from Rwanda with Rwanda Franc 109,500 and exchanged it for US dollars. How many US dollars did she get from the bank? **(3 marks)**

29. In the figure below, line PQ is parallel to CB. Angle CMU = 44° and angle MGR = 56° . Study and use it to answer questions that follow.



(a) Find the size of angle **k**. **(3 marks)**

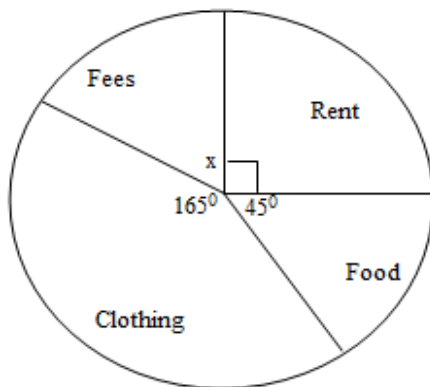
(b) Find the size of angle **g**. **(2 marks)**

30. Andrew spends $\frac{2}{5}$ of his salary on fees and $\frac{3}{8}$ remainder on food. If he remains with Shs120, 000, how much money does he get every month? **(5 marks)**

31. Given that $y = x + 2$. Copy and complete the table below. **(5 marks)**

x	-4	-3		-1		1	
y			0		2		4

32. The Pie Chart below shows how Mr. Okello spends his salary. Use it to answer the questions that follow.



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

(b) If he spends Shs72, 000 on fees, find his monthly salary. **(2 marks)**

(c) What fraction of his money does he spend on rent? **(1 mark)**

END