KARLMARX EDUCATION SERIVCES

PRE MOCK EXAMINATIONS 2023

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2hours 30 minutes

Random No.						Personal No.		

Candidate's name: ....

Candidate's Signature: ....

District ID:

Read the following instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections A and B. Section A has 20 questions and section B has 12 questions.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will NOT be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S No.
1- 5		
6 -10		
11- 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

©2023 Karlmarx Education Services   Turn Over
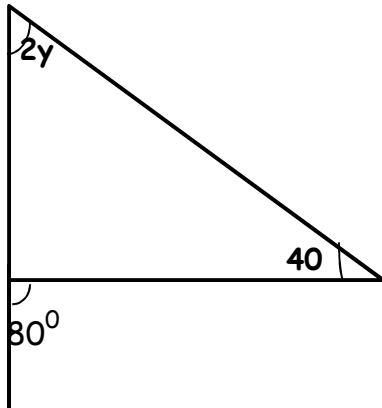
1. Divide 2 ÷ 8

2. Workout: $7^2 \times 7^1$

3. Study and Complete the sequence
   3, 4, 9, 11, 15 _____

4. Find the value of Y

5. What number has been expanded to
   Give $(3 \times 10^2) + (5 \times 10^0) + (7 \times 10^{-2})$

6. The cost of 6 pens is Sh: 3000. Find the Cost of 4 similar pens at the same rate.

7. Draw and show lines of folding symmetry in a rectangle.

8. Find the least number of sweets when divided among 8 boys or girls equally leave two sweets as a remainder.

9. Write 90,049 in words.

10. Solve for P. $2^P = 32$

11. If today is Wednesday, What day of the week will it be after 28 days from now?

16. In a basket, there are 14 oranges of which 6 are rotten. Find the probability of picking good oranges at random.

12. A mathematics lesson started at 8:40am. If the lesson took 40 minutes, at What time did it end?

17. Increase Sh. 20,000/= in the ratio of 7:5.
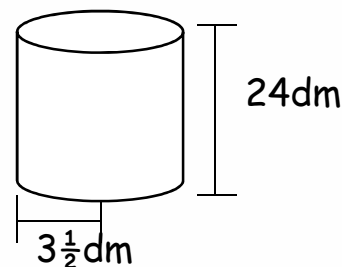
13. Simplify: 5a + 3b – 2a – b

18. represents 7 trees. Draw pictures to 42 trees.

14. Set P has 31 proper subsets. Find n(P)

19. Find the volume of the cylinder below (Take π = 22)

7

24dm

$3\frac{1}{2}$dm

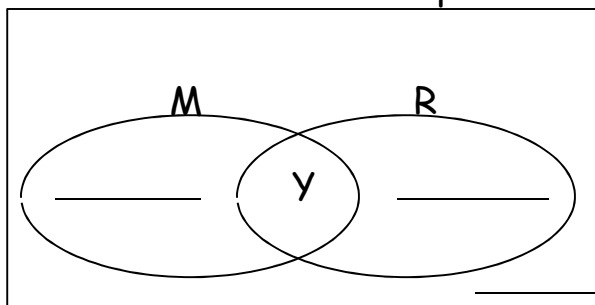15. A packet of gonja weighs 200gm. Calculate the total weight in kilogrammes Of 30 packets of gonja.

20. Using a ruler a pair of compasses only. Construct an angle of 75^0

21.. In a village, 21 farmers grow maize (M) and y + 3 grow rice while 5 grow neither of the two crops.

(a)   Use the above information to complete the venn diagram below.

M   R

y

(03 marks)

(b)   If 17 farmers grow rice. Find the value of y

(02 marks)

22. A certain amount of money was shared among three sons. Jonathan, Moses and Okello in the ratio of 2:3:5. If Okello got Sh. 21000 more than Johnathan.

(a)   How many did each get?

(03 marks)

(b)   Express Moses' share as a percentage?

(01 marks)

23. (a) Write 8357 in standard form.

(01 marks)

(b) Round off 299.92 to the nearest whole number

(02 marks)

(c) Find the sum of value of 5 and place value of 2 in the number 12, 507.

(02 marks)

24. (a) The table below shows pupils who participated in National quiz competitions. Study it carefully and answer the questions that follow.

Marks	35	40	50	70	90
No of pupils	2	3	2	2	1

(a) What is the modal mark?

(01 mark)

(b) How many pupils got above the modal mark

(01 mark)

(c) Calculate the mean mark

(02 marks)

25. (a) A worker spends $\frac{1}{7}$ of his monthly salary on food, $\frac{2}{3}$ of the remainder on rent and he saves the rest. Find his annual salary if his monthly saving is sh. 140,000.

(04 marks)

(b) Work out his total monthly expenditure.

(02 marks)

26. Kennedy went to the super market and bought the following items.
3kg of Sugar at Sh. 3000 per kg.
500ml of cooking oil at sh. 5000 @ litre.
10 pineapples at sh. 10, 000 for every 5 pineapples
 (a)   Calculate the total cost of the items

(04 marks)

 (b)   If he was given a change of sh. 8500, how much money did he gave at the beginning?

(02 marks)

27. The time table below shows the arrival and departure times of an aeroplane travelling from Nairobi to Entebbe.

Airport	Arrival time	Departure time
Nairobi		11:15am
Kigali	1:00pm	2:30pm
Lusaka	3:30pm	7:20pm
Entebbe	9:00pm	

(a) For how long does the aeroplane stay at Lusaka?

(02 marks)
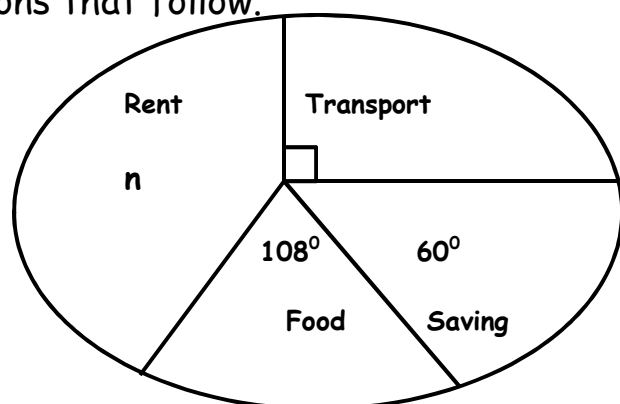
(b) How long does the plane take travel from Naiorbo to Entebbe?

(02 marks)

(c) What time does the plane arrive at Lusaka in the 24 hour clock?

(01 mark)

28. Use the pic chart below about Nakato's monthly expenditure to answer the questions that follow.

Rent

Transport

n

108⁰

60⁰

Food

Saving

(a)   Find the value of n

(02 marks)

(b)   If she saves shs 240,000 every month, how much does she earn monthly?

(03 marks)

(c)   Express the sector of Rent as a percentage

(01 mark)

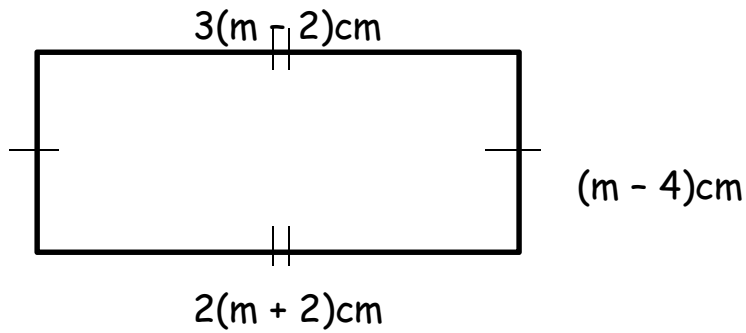29. (a) Workout: $\dfrac{2}{3} - \dfrac{1}{2} + \dfrac{1}{4}$

(02 marks)

(b) Evaluate: $\dfrac{0.18 \times 2.4}{0.6 \times 0.9}$

(03 marks)

30. A P.7 Class teacher 2022 arranged his candidates in groups of 8, 6 remained when he grouped them in 11, only 2 remained and when he grouped them in 5, only 1 pupil remained. How many candidates were in P.7 2022?

31. Study the figure below.

3(m − 2)cm

(m − 4)cm

2(m + 2)cm

(a) Find the value of m.

(02 marks)

(b) Calculate its area.

(03 marks)

32. (a) Form all the possible 3 –digit numerals from the digits 8, 0 and 4.

(02 marks)

(c) Without dividing directly prove that 100, 101, is exactly divisible by 3.
    (02 marks)