

#### THE E-LEARN EXAMINATIONS BOARD

# P.7 PRE PLE SET THREE / TEN 2024

#### MATHEMATICS

Time Allowed: 2 hours 15 minutes

Indon No	EMIS No.	Persona	l No.		
Index No. —					
Pupil's Signatui School Name:	re:				
Read the following instructions carefully:  L. Do not forget to write your school or		FOR EXAMINERS' USE ONLY			
district name	on the paper.	Qn. No.	MARKS	EXR'S	
	two sections: A and B.			NO.	
Section A has 20 questions and section B has 12 questions. The paper		1-5			
the second section is a second section of the second section of the second section is a second section of the second section of the second section is a second section of the second section of the second section section is a second section of the second section s	pages altogether.	6 - 10			
Answer all questions. All working for both sections A and B must be shown		11 - 15			
in the spaces p	rovided.	16 - 20			
	ust be written using a blue	21 – 22			

23 - 24

25 - 26

27 - 28

6. Do not fill anything in the table indicated: inside the question paper

written in pencil will not be marked.

handwriting that cannot be read

easily may lead to loss of marks.

Unnecessary changes in your work and

"For Examiners' use only" and boxes

29 - 32TOTAL @2024 e-Learn Examinations Board 0708-438054 / 0780-438054

**CS** CamScanner

#### **SECTION A: 40 MARKS**

#### Answer all questions in this section

# Questions 1 to 20 carry two marks each

- 1. Work out: 405 289
- 2. Write 490,092 in words.
- 3. Simplify: 7mn 7m n mn + m.

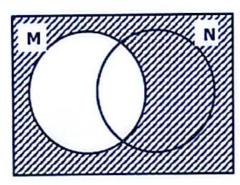
4. Given D = (4, 0, 5, 8). List all proper subsets of D.

- Find the square root of the next number in the sequence;
  - 36, 49, 64, 81, .....
- Express 0.1777777..... as a common fraction.

7.	Precious slept at 10:15 p.m. and woke up after 2 hours and 40 minutes.	What time did
	she wake up in 24-hour clock system?	



- 9. Use tallies to represent the quotient of 36 and 3.
- Study the diagram below and describe the shaded region.



11. A sachet of gorillos weighed 12mg. What is its mass in decagrams?

12.	If today is a Tuesday, what day of the week will it be 48days after tomorrow?
13.	Find the sum of 679 and the smallest 3-digit number formed using digits 6, 0, 8.
14.	Raymond exercises every 12days and Moses every 8 days. Raymond and Moses both exercised today. How many days will it be until they exercise together again?
15.	Using a ruler, pencil and a pair of compasses only construct the complementary angle of 75°.
	4

- In a P.7 class, the ratio of girls to boys is 5:3. If there 24. boys. Find the number of girls in P.7
- 17. Express 0.00643 in standard form.

18. A canteen attendant bought 2 dozen of rulers at sh. 24,000. She later sold each ruler at sh. 1500. How much profit did she make?

19. A car covered a distance of 660cm in **five** revolutions. Calculate the diameter of the car wheel. (take  $\pi = \frac{22}{7}$ )

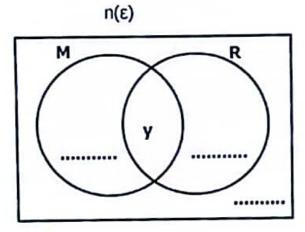
In a basket of apples, 12% of them are rotten and 88 are in good condition.Find the total number of apples in the basket.

#### **SECTION B: 60 MARKS**

# Answer all questions in this section

# Marks for each question are indicated in the brackets

- At a graduation party, 32 people like Rice only, y people liked both Rice (R) and Matooke (M), (2y-10) people like Matooke but not Rice, while (y-2) do not like any of the two foods.
  - (a) Use the information above to complete the Venn diagram below. (03 Marks)



- (b) Given that those who like Matooke only are more than those who like Rice only by 38, find the value of y. (02 marks)
- A trader borrowed money from centenary bank at an interest rate 10% per annum for 2years.
  - (a) How much did he borrow if he paid an interest of sh.84,000?

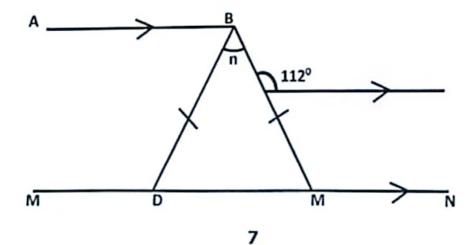
(02 Marks)

23. (a) Solve for y: 4(2y+3)31-3(y-1)

(03 Marks)

(b) At Rania's 12th birthday her father was 50 years old. After how many years will the father be thrice as old as the daughter? (03 Marks)

 Study the diagram below and use the information given to answer the questions that follow.



(a) Find the value of angle n.

(02 marks)

(b) Find the size of angle marked

(02 marks)

(ii)  $\frac{1}{4}$  of BMN

**BDM** 

(i)

25. (a) Convert 18km/hr. to metres per second.

(02 Marks)

(b) A bus driver covered a distance of 200km at an average speed of 80km/hr. If he reached her destination at 4:05p.m., At what time did he start the journey?

(03 Marks)

 The table shows the rate at which Bamuda forex bureau buys and sells United States dollars and Kenya shillings in Uganda shillings. Use it to answer questions that follow.

Currency	Buying rate	Selling rate		
1 Us dollar	Ug sh 3500	Ug shs 3650		
1 ksh	Ug sh 30	Ug shs 32		

(a)	Abigail had Ksh. 18250 and bought a fridge using US	dollars. How many US dollars
	did she pay for the fridge?	(03 Marks)

(b) Jason had US dollars 400. He exchanged the dollars for Uganda shillings and bought a home theater sh. 1,035,000. What was his balance in US dollars? (03 Marks)

 Mr. Katiko has a juice tank at his factory as shown below. Study it carefully and use it to answer questions that follow.

(a) Calculate the capacity of the tank when it is full of juice. (03 Marks)

(b) If juice from the tank is packed in 20 litre jerrycans for selling, find the number of jerrycans which were obtained from the juice tank? (02 Marks)

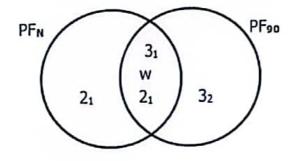
28. (a) Convert 223 four to base six.

(02 Marks)

(b) Work out 123 five × 23 five

(03 Marks)

29. The Venn diagram below shows the prime factors of N and 90.



(a) Find the value of w.

(02 marks)

(b) Find the HCF of N and 90.

(02 marks)

30. Candidates sat for a mathematics test and performed as shown on the table below.

Number of candidates	///	1	//	///
Marks scored	60	90	40	S

(a) How many candidates sat for the test?

(01 mark)

(b) If the mean mark was 50, find the value of S.

(02 marks)

(c) How many candidates scored above the average mark?

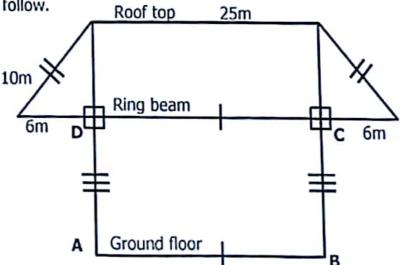
(01 mark)

31. (a) Using a ruler, a pencil and a pair of compasses only construct a quadrilateral MODE inside a circle of radius 3.5cm (04 marks)

(b) Calculate the perimeter of the quadrilateral formed.

(02 marks)

32. Below is house plan for Mr. Odongo's house. Study it carefully and use it to answer the questions that follow.



(b) If AB is half of BC, find the total area of the house plan to be constructed.

(04 marks)

END