THE E-LEARN EXAMINATIONS BOARD

P.7 PRE PLE SET SEVEN / TEN

2024

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.					Personal No.		

Pupil's Name: ....

Pupil's Signature: ....

School Name: ....

District Name: ....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.

2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **12** printed pages altogether.

3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.

4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.

5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.

6. Do not fill anything in the table indicated: **"For Examiners' use only"** and 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 – 32		
TOTAL		

SECTION A: 40 *MARKS*

*Answer **all** the questions in this section.*

*Questions **1** to **20** carry **two** marks each.*

1. Work out: 46 + 53.

2. What number has been expanded to give:

   $(4 \times 100) + (7 \times 10) + (3 \times 10^{-2}) + (8 \times 10^{-3})$

3. Express $12\frac{1}{2}\%$ as a decimal.

4. Find the mean of the following numbers: -6, 0, -4, 6, 5, 7, 3 and 5.

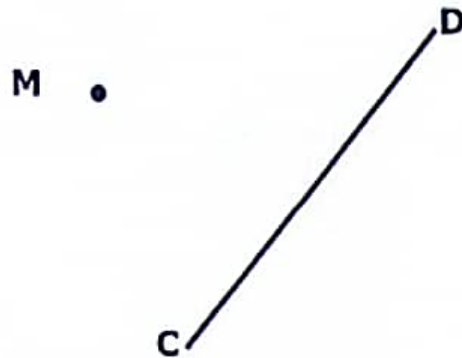5. Draw a Venn diagram showing that pupils (P) and teachers (T) are part of the school(S).

6. Find the sum of the 20th and 23rd triangular numbers.

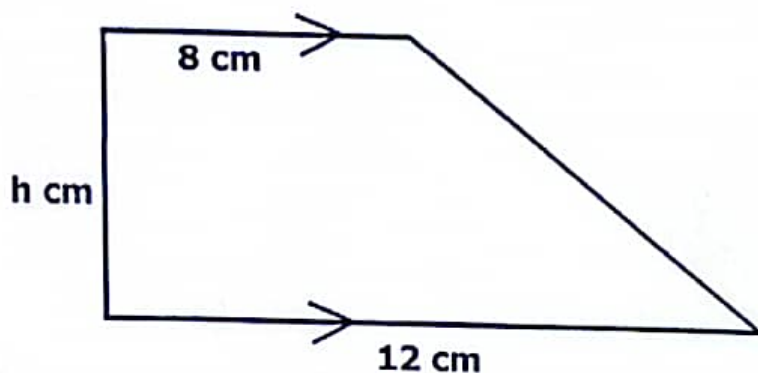7. Solve for p: $\frac{2}{3}p + 5 = 1 + p$

8. Work out: $3 \times {}^{-}2$ using a number line.

9. The price of a radio was increased by 25%. If its new price is sh. 50,000. Find the old price.

10. Along Ntinda-Kiwatule Road, a guava tree planted by K.C.C.A is the 25th from either side of the line of fruit trees. How many trees are in that line?

11. Using a ruler, a pencil and a pair of compasses only construct a line through point **M**. parallel to line **CD**.

M •

,D

C

12. The figure below has an area of 100cm² Find the value of **h**.

8 cm

h cm

12 cm

13. 3 shorts take 10 minutes to dry in the hot sun. How long will 20 shorts take if they are exposed to sunshine at the same time?

14. A driver covers a distance of 360km at a speed of 60km/h. How many hours less will he use if he drives at 90km/h. to cover the same distance.

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15. Solve for **q**: $6^{2q+1} \div 36 = 1$

16. Through what angle does a minute hand of a clock move in 40 minutes.

17. Use distributive property to work out: $(2.4 \times 6) + (2.4 \times 4)$

18. Work out:
Kg	g
9	250
- 3	710

19. Express 449 in roman numerals.

20. Tell the afternoon time shown on the clock face.

SECTION B: 60 MARKS

*Answer **all** the questions in this section.*
Marks for each question are indicated in brackets.

21. (a) At a graduation party, children were served with 3 meat pieces each, adults were served with 4 pieces of chicken each and each member who attended was served with a bottle of soda. If 72 meat pieces and 192 chicken pieces were served, how many people attended the party. *(03 marks)*

    (b) If a crate of soda contains 24 bottles and costs sh. 20,000. How much was spent on soda? *(02 marks)*
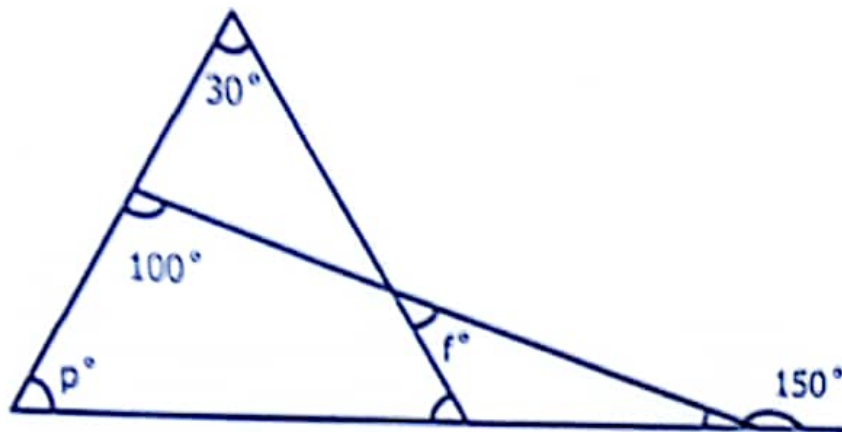
22. Two bells are rung at intervals of 40 minutes and 50 minutes for lower and upper primary classes respectively.

    (a) After how many minutes will the two bells be sounded together?

    (03 marks)

    (b) If they are sounded together for the first time at 7:00 a.m. At what time will the two bells sound together for the second time? *(02 marks)*

(a) Study the diagram below and answer the questions that follow.

(i) Find angle f.

(02 marks)

(ii) Find angle p.

(02 marks)

(b) The exterior angle of a regular pentagon is $5n + 12$. Find the value of n.

(02 marks)

27. In a P.7 class, $\frac{1}{3}$ of the pupils ate sweet potatoes, $\frac{1}{2}$ ate pumpkins, $\frac{1}{2}$ of the remainder ate cassava and the remaining 6 pupils ate rice. Find the number of pupils in the class. *(05 marks)*

28. Marvin drove a car from town **E** to town **F** at a speed of 90km/h. in 3 hours. He rested at town **F** for an hour and drove back at an average speed of 54km/h. Calculate Marvin's average speed for the whole journey.

(05 marks)

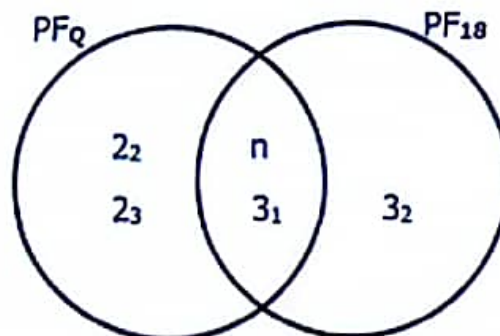23. (a) Solve and write the solution set for: $3-2m < 15$.   *(03 marks)*

(b) Tinah is four years younger than Trisha. Teddy is two years younger than Tinah. If the age of Tinah and Teddy is 32, how old is Teddy?

(03 marks)

24. Study the venn diagram below and answer questions that follow.

(03 marks)

PF_Q ... PF_{18}

2_2 n

2_3 3_1 3_2

(a) Find the value of:

   (i)   Q   *(01 mark each)*

   (ii)   n

7   **Turn Over**

(b) Workout:

    (i) $PF_Q \cap PF_{18}$ *(01 mark)*

    (ii)   **LCM** of **Q** and **18**   *(02 marks)*

25.   (a) Find the difference of the place value of **4** and **6** in the number 43,267.

                                                                 (02 marks)

(b) Given that $24_r = 14$. Find the unknown base **r**.   *(02 marks)*

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29. The table below shows the denominations, number of notes and amount. Use it to complete the blank spaces correctly with correct working.

Denomination	Number of notes	Amount
sh. 1,000	20	sh. 20,000
sh. 2,000	15	sh. ....
sh. 5,000	....	sh. 75,000
sh.	5	sh. 50,000
sh.	4	sh. ....
Total		sh. 375,000

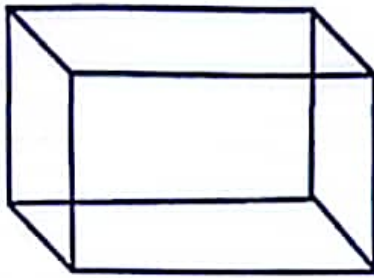30. Using a pair of compasses, ruler and a very sharp pencil only, construct a triangle JKL where line JK = 5cm, angle JKL = 105° and line KL=3.5cm.

(04 marks)

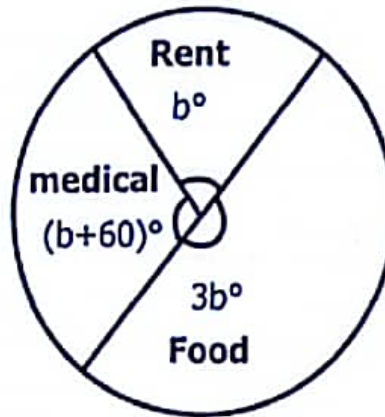(b) Measure angle KJT ....(01 mark)

Turn Over

31. How many 250 litre jerrycans of milk can be obtained from a rectangular tank of 4m by Sm by 3m? (04 marks)

32. The pie chart below shows how Mr. Byamugisha spent his monthly salary. Study and use it to answer questions that follow.

(a) Find the value of **b** in degrees.

(02 marks)

(b) If he spends **sh. 200,000** more on food than medical, find how much he spends on rent. (03 marks)

END