



THE E-LEARN EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATIONS

2023

MATHEMATICS

Time Allowed: 2 hours 30 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 **14** 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 – 10 | | |
| 11 – 20 | | |
| 21 – 30 | | |
| 31 – 40 | | |
| 41 – 43 | | |
| 44 – 46 | | |
| 47 – 49 | | |
| 50 – 52 | | |
| 53 – 55 | | |
| TOTAL | | |

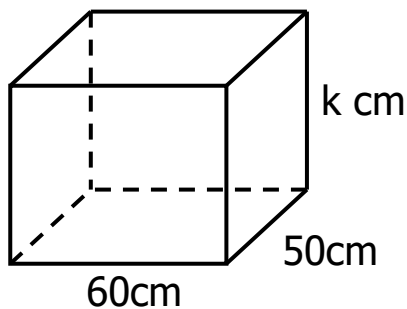
SECTION A: 40 MARKS

Answer ***all*** questions in this Section
Questions ***1*** to ***20*** carry two marks each.

1. Add: $3076 + 6$

2. Write 505,050 in words.

3. The volume of the tank below is $120,000\text{cm}^3$. Find the height of the tank.

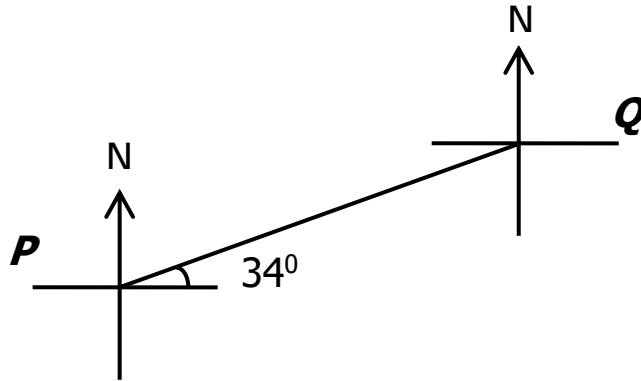


4. Francis banked sh. 60,000 in Crane Bank. If the interest rate was 8% per annum. How much did he earn after nine months?



5. Simplify: $+10 - -4$

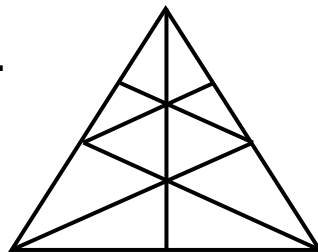
6. Use the sketch diagram below to find the bearing of town **Q** from **P**.



7. Round off 64.98 to the nearest tenths.

8. A wheel of diameter 28cm is rolling along the path of 176m. How many revolutions does it make?

9. Shade $\frac{2}{5}$ on the figure below.



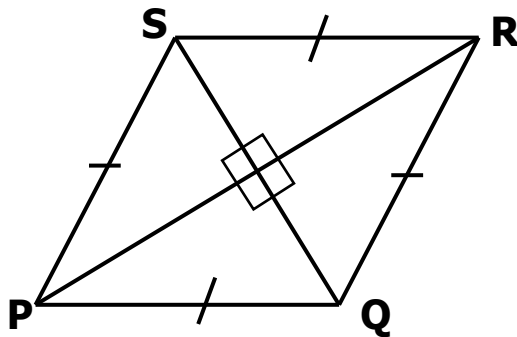
10. Simplify: $\frac{0.48 \times 0.14}{0.6}$

11. The base area of a cylindrical tank is 1386cm^2 . Find its capacity if it has a height of 100cm.
(Use $\pi = \frac{22}{7}$)

12. Express 0.070707... as a common fraction in its simplest form.

13. Multiply: $101_{\text{two}} \times 11_{\text{two}}$

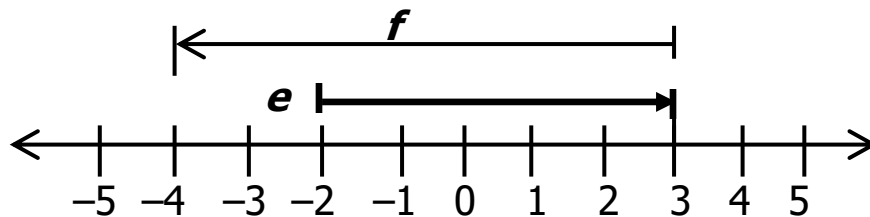
14. Below is a rhombus **PQRS**. PR = 16cm and SQ= 12cm. Calculate its perimeter.



Turn Over

15. Mango juice is sold in 250ml sachets. How much money would Joseph pay for 1 liter of juice if each sachet costs sh. 1,200?

16. Write the integers that are represented by the arrows e and f .



(i) e

(ii) f

17. The table below shows marks scored by some pupils in Primary Six class at a certain school. Use it to find their median mark.

| | | | | |
|---------------|----|----|----|----|
| No. of pupils | 2 | 3 | 1 | 2 |
| Marks scored | 60 | 75 | 95 | 55 |

18. A car travels for 20 minutes at the speed of 90km/hour. Find the distance it covers.

19. Find the next two numbers in the sequence:

81, 64, 49, 36,,

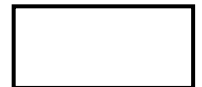
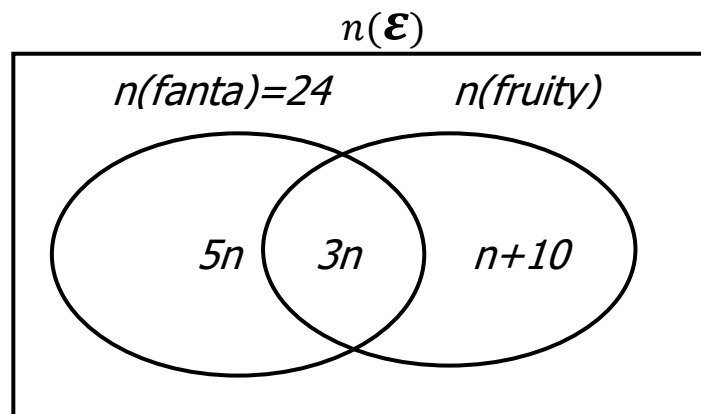
20. Nine men take 10 days to slash a school compound. How many more men are needed to slash the same compound in only 6 days working at the same rate?

SECTION B: 60 MARKS

*Answer **all** questions in this Section*

Marks for each question are indicated in brackets

21. The Venn diagram below shows different drinks of sodas taken by different people at a certain party. Study and use it to answer the questions that follow.



- (a) Find the value of n .

(02 Marks)

Turn Over

(b) How many people attended the party? *(02 Marks)*

(c) What is the probability of picking a person who took only fruity to be the MC? *(02 Mark)*

22. Muliika went with twenty thousand shilling note to the market and bought the following items.

3kg of sugar at sh 2,800 per kg.

$1\frac{1}{2}$ kg of salt at sh 260 per kg.

4 bars of soap for sh 4,000.

300ml of cooking oil at sh 2,000 per liter.

(a) If he was given a discount of 10%, how much did he pay for all items? *(04 Marks)*

- (b) How much in Kenyan shillings did Muliika pay after the discount if *Ksh 1 = Ugsh 30*? (01 Mark)

23. Mweruka wants to fence her rectangular plot of land which is 225m by 165m with poles placed 3m apart.

- (a) How many poles will she need? (03 Marks)

- (b) If each pole costs sh 2,000. How much will she spend on fencing her plot of land? (02 Marks)

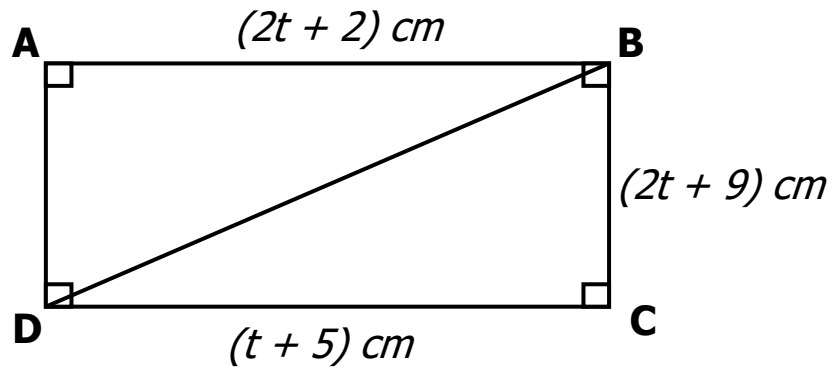
24. Use the equation $y = -2x + 4$ to complete the table below.

(04 Marks)

| | | | | | | |
|---|----|-------|-------|---|-------|-------|
| x | -3 | -2 | -1 | 0 | 1 | |
| y | 10 | | | 4 | | 0 |

Turn Over

25. Below is a rectangle **ABCD**. Use it to answer the questions that follow.



- (a) Find the value of ***t***. (02 Marks)

- (b) Find the length of the diagonal **DB**. (03 Marks)

26. (a) Solve the equation: $2 - \frac{2x}{3} = 4$. (02 Marks)

- (b) Simplify: $\frac{2}{3}(6w - 3) - \frac{1}{2}(4 - 2w)$ (03 Marks)

27. (a) Using a ruler, a pencil and a pair of compasses only, construct a kite **STUV** in which $ST = SV = 5.5\text{cm}$, $SU = 8\text{cm}$ and $TV = 6\text{cm}$. *(04 Marks)*

(b) Measure length TU cm *(01 Mark)*

28. Tajiri covered his living room which measures 9m by 6m with square tiles of 30cm each side.

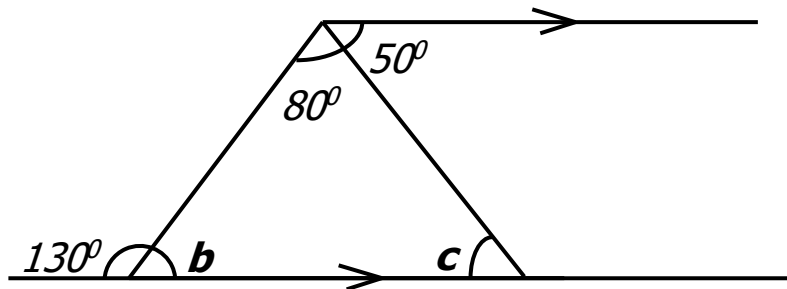
(a) How many tiles were used? *(03 Marks)*

(b) If at the Hardware, 50 tiles are packed in the box and each box costs sh 60,000, how much did Tajiri spend on buying the tiles? *(02 Marks)*

Turn Over

29. (a) The interior angle of a regular polygon is 135° . What is the name of the polygon? *(02 Marks)*

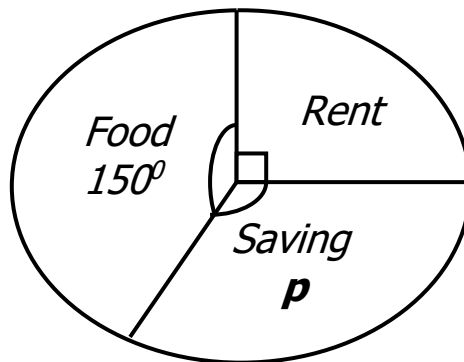
- b) In the figure below, find the size of angles ***b*** and ***c***.



- (i) angle ***b*** *(02 Marks)*

- (ii) angle ***c*** *(01 Mark)*

30. The pie chart below shows how Mrs. Kasoone spends her salary per month.



- (a) Find the value of p in degrees. (02 Marks)

- (b) If Mrs. Kasoone spends shs. 450,000 on food every month. How much does she earn in a year? (03 Marks)



Turn Over

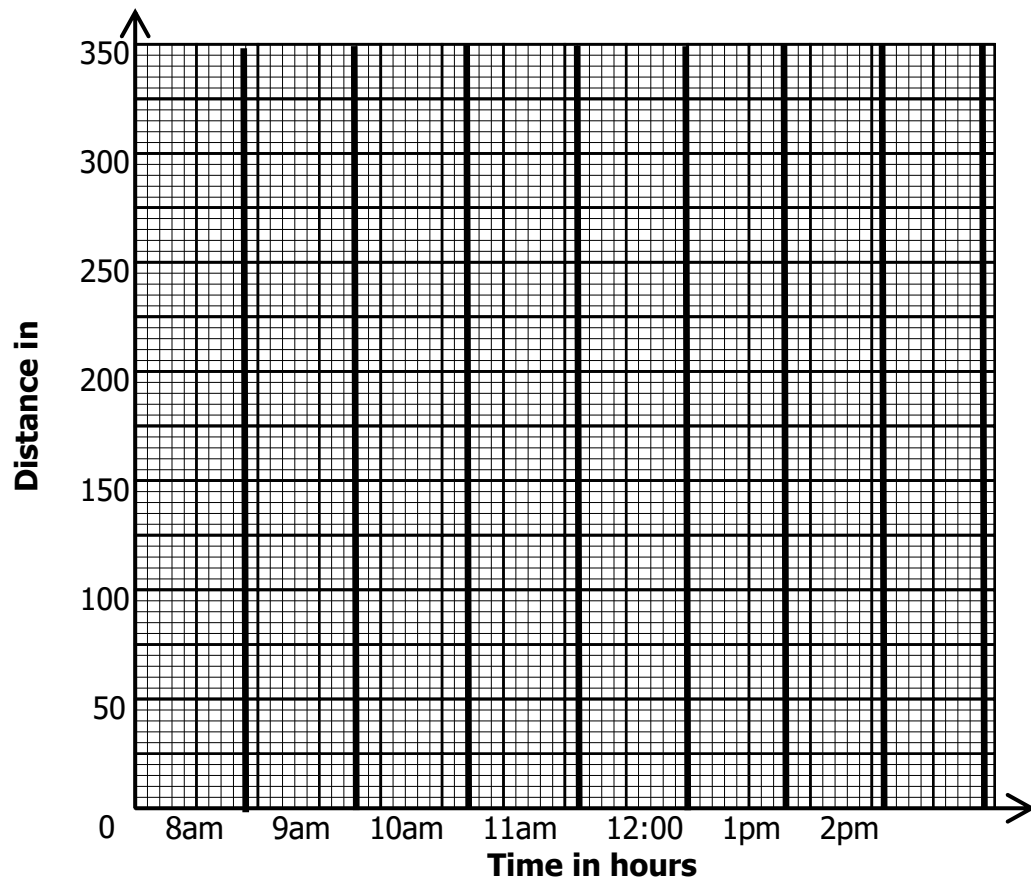
31. Apuuli is 4 years older than Amooti, while Akiiki is 2 years younger than Apuuli. The total age of Apuuli and Amooti is 28 years.

(a) How old is Akiiki? *(03 Marks)*

(b) How old will Apuuli be in 2 years time to come? *(02 Marks)*

32. Odeke travelled from town **A** to town **C** a distance of **325 km**. He started the journey at 8:30 a.m and drove at a speed of 75 kph for 2 hours. He rested for 1 hour at town **B** and then continued to town **C** for $2\frac{1}{2}$ hours.

(a) Show how Odeke travelled on the graph below. *(03 Marks)*



(b) At what time did Odeke arrive at town **C**? (02 Mark)

END

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