# RAPHA EXAMINATIONS BOARD
## P.7 EXAMINATIONS  2024
## REAL MOCK SET THREE
## MATHEMATICS

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***Time allowed: 2 hours 30 minutes***

| Random No. | | | | | | | Personal No. | | |
|---|---|---|---|---|---|---|---|---|---|
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Candidate's   Name: ……..…………..………………………………………………....

Candidate's Signature   : …………………………………………………..…………

District   Name: ……………………………………………………………………...

### Read the following instructions carefully:

**1.**    The paper has two sections:    A  and  B.

**2.**    Section  A  has 40 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 changes   in your 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 table indicated:
   "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

**Turn Over**

1.    Write 39 in Roman Numerals.

2.    Simplify -2 – 8.

3.    Six chairs cost sh. 12,000.  How much more money is needed to buy 9 similar chair?

4.    Round off 14.85 to the nearest whole number.

5.    Change 0.65kg to grammes.

6.    Add  1  2  $2_{four}$
      +3  3  $2_{four}$

7.    Solve for a: $\dfrac{2a}{3}$ +  4 = 12

8.    The L.C.M of two numbers is 60. if one of the numbers is 15.  find the second number given that their G.C.F is 3.

9.    Workout the square root of  $1 \frac{9}{16}$

**Turn over**

10. Find the value of x
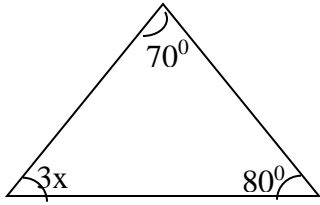


14. Simplify: 0.45 ÷ 0.9.

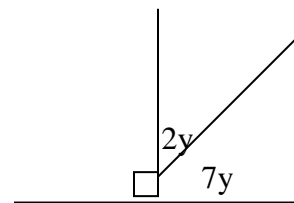15. In a class, there are 15 boys and 45 girls. Find the percentage of girls.

11. An examination began at 11:30a.m and ended at 1:45p.m. How long did the examination last?

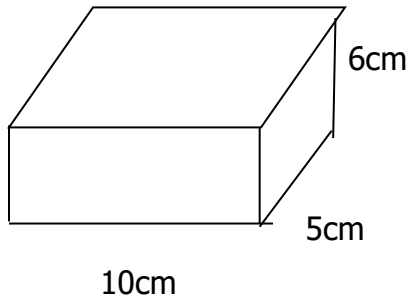16. Given that 44p = 30 $_{eight}$, find the value of P.

12. Solve: 2 – 3 = x (finites)

17. Calculate the value of Y.



13. Two angle that are supplementary are in a ratio of 3:5. find the angles.

18. Calculate the T.S.A of the cuboid below.
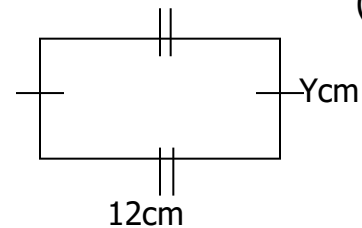


6cm

5cm

10cm

19. Kabodde covered a distance of 270km in 3hours. What was his average speed in km/hr ?

20. Solve: $3(x - 2) - (x - 4) = 8$

21. a) Simplify: $\dfrac{0.045}{1.5 \times 0.03}$

b) The area of the figure below is 48cm². find the value of Y
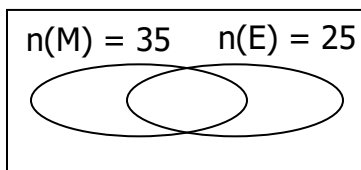
(3marks)



Ycm

12cm

22. At River Nile Academy, two bells are rung. One bell rings after every 20 minutes and another rings after every 30 minutes.
a) If the bells are rung at the same time, after how long shall the two bells

be rung again at the same time? (3marks)

b)    If the rang at 8:00a.m, at what time shall they be rung together again? (2marks)

23.    In a class of 55 pupils, 35 like Mathematics (M), 25like English (E) and 5 do not like any of the two subjects, while some pupils like both.
a) Use the information to complete the venn diagram below.

n(M) = 35    n(E) = 25



b) How many pupils like only one subject? (3marks)

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24.    The diagram below shows three sides of a rectangle taken in order. (3x -2)cm, (x+1)cm and (2x + 2)cm
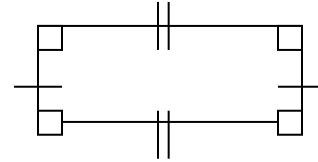


a) Find the value of x.  (2marks)

b) Calculate for the perimeter (3marks)

25.    Using a pair of compasses, a pencil and a ruler only, construct a triangle ABC where by BC = 6cm, ang ABC = 900 and angle BCA = 450. (4marks)
b) Measure angle BAC.        (1mark)

28. 40% of the pupil in a class are girls and the rest are boys.
b) What percentage of the pupils are boy? (2marks)

c) How old is the fifty boys? (2marks)

c) If there are 24 girls in the class, how many pupils are there in the class altogether? (3marks)

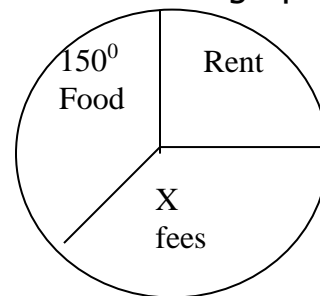30. Omulambeezi spent sh. 72,000 as shown on the circle graph below.



29. The average of 4men is 30 years. When the fifth boy is added, the average age becomes 35 years.
a) Find the total age of the first 4 men. (1mark)

a) Find the value of x. (2marks)

b) How much did she spend on rent? (2marks)

b) What is the total age to the five men. (1mark)

c) How much more is spent on food than on fees? (2marks)

31. Three people; Amma, Okello and Mukasa shared a certain sum of money in a ratio of 4:6:3 respectively. if Amma got sh. 2000 more than Mukasa, how much money was shared altogether? (5marks)

2. $^2/_3$ of a loaf of bread weighs 240g. find the actual weight of a full loaf of bread.

32. Bobi Wine bought a bull at sh. 200,000, he sold it to Among at a profit of 40%. Among then sold it to Tayebwa at a loss of 20%. How much did Tayebwa pay for the bull? (5marks)

3. Find the value of X.
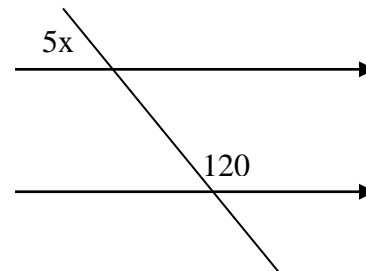


4. The mean age of 3 boy is 40 years. The total age of two of them is 90 years. What is the age of the third boy?

**END**