CENTENARY EXAMINATIONS BOARD

PRIMARY SIX MATHEMATICS

END OF TERM ONE ASSESSMENT 2024

Time allowed 2 hours 30 minutes

PUPIL'S NAME: File copy **STREAM** P.7

SCHOOL NAME High Quality Nur & Primary School

DISTRICT: Kakumiro - Kakindi - Omubukale

Read the following instructions carefully:

1. The paper has **two** Sections: **A** and **B**.
2. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the Space provided.
3. All answers must be written using a blue Or black ball-point pen or ink.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be Read may lead to loss of marks.
6. Do not fill anything in the boxes shown: **"For Examiners' Use Only"** and those Inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	Examiner's No.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
Total		

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SECTION A. (40 MRKS)

1. Subtract

$$\begin{array}{r} 3\ \ 12 \\ 4\ \ 2 \\ -\ 2\ \ 8 \\ \hline 1\ \ 4 \end{array}$$

2. Write **2643** in words.

Two thousand six hundred forty three

3. Find the **L.C.M** of **12** and **20**.

2	12	20
2	6	10
3	3	5
5	1	5
	1	1

$(2\times2)\times(3\times5)$

$=4\times15$

$=60$

LCM of 12 and 20 = 60

4. Convert **48kg** to **g**.

1kg = 1000g

48kg = (48×1000)g

= 48000g

5. Given that:

K = {2, 4, 6, 8}

Find **n(K)**

K = {2, 4, 6, 8}

n(K) = 4

6. Simplify **5m + 2n -3m + n**

5m + 2n − 3m + n

5m − 3m + 2n + n

2m + 3n

7. What is the sum of **firstthree oddnumbers**?

Sum = 1 + 3 + 5

Sum = 1 + 8

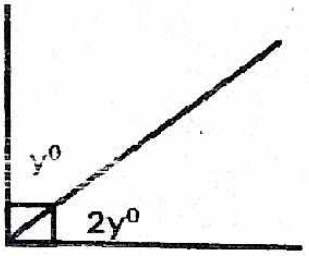
Sum = 9

1st – 1

2nd – 3

3rd – 5

8.



Find the value of **y**.

$y^\circ + 2y^\circ = 90^\circ$

$3y^\circ = 90^\circ$

$\frac{3y^\circ}{3} = \frac{90^\circ}{3}$

$y^\circ = 30^\circ$

9. Given that **4 eggs** costshs **1,200**. How many eggs willone buy withshs. **300**.

4eggs = sh 1200

sh 1200 = 4eggs.

1 egg = $\frac{1200}{4}$ eggsh.

= 300

300sh. = $\left(\frac{1}{300}\times300\right)$egg.

= 1 egg

10. Divide **243** by **3**.

$$\begin{array}{r} 61 \\ 3\overline{)243} \end{array}$$

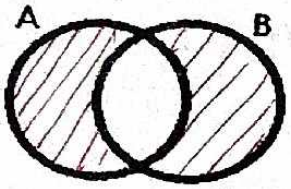
= 61.

4 × 3
1200

12
10

sh 1200 = 4eggs,
1sh = $\left(\frac{1200}{4}\right)$
300

11. In the Venn diagram, shade **$(A \cap B)^1$**



$(A \cap B)^1$

12. Show the **lines of folding symmetry** in the figure below.

13. Express **68** in **Roman Numerals.**

60 + 8

L + VIII

68 = LXVIII

14. Given that 🧍 represents **10 pupils**, draw pictographs to represent **40 pupils.**

1 picto = 10 pupils

10 pupils = 1 picto

40 pupils = $\left(\frac{1}{10} \times 40\right)$ pictos

= 4 pictos

🧍🧍🧍🧍

15. **Add:**

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 1\ 2\ 3_{\text{five}} \\ +\ \ 4\ 2_{\text{five}} \\ \hline 2\ 2\ 0_{\text{five}} \end{array}$$

5 + 5 = 10

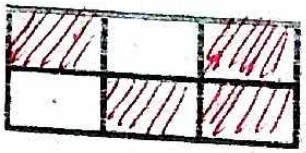
16. Mary had **shs. 18,000.** She bought a skirt at **shs 3,200.** How much money was she left with?

$$\begin{array}{r} {\scriptstyle 7\ 10} \\ \text{sh. } 18,000 \\ -\ \text{shs } 3\,200 \\ \hline \text{sh } 14800 \end{array}$$

17. Write 3089 in expanded form using powers.

$(3 \times 10^3) + (0 \times 10^2) + (8 \times 10^1) + (9 \times 10^0)$

18. In the Venn diagram shade $\frac{2}{3}$



$\frac{2}{3}$ of 6

2 × 2

= 4

19. Reduce $\frac{12}{60}$ to its **simplest form.**

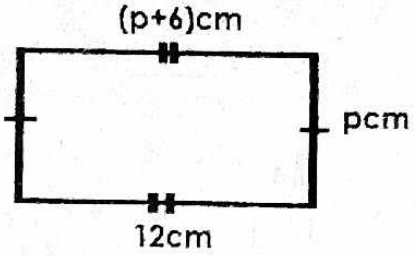
$\frac{12 \div 12}{60} = \frac{1}{5}$

20. What is the **place value** of **3** in 4.39

4.39
Tenths

SECTION B. (60 Mrks)

21. Below is a rectangle, use it answer questions that follow.



(a) Find the value of **p**. **(2mks)**

$(p+6)cm = 12cm$
$pcm + 6cm = 12cm$
$pcm + 6cm - 6cm = 12cm - 6cm$
$pcm + 0 = 6cm$
$\frac{pcm}{1cm} = \frac{6cm}{1cm}$
$p = 6$

(b) Find the **area** of the rectangle. **(3mks)**

Area = L x W
Area = 12cm x 6cm
Area = $72cm^2$

22. A car travelled from **9:00am to 11:00am** at a steady speed of **60km/hr.** Find the distance covered by the car. **(5mks**

Time = 11:00am − 9:00am = 2:00hr

Distance = Speed x Time
= 60km/hr x 2hours

Distance = 60km x 2
Distance = 120km

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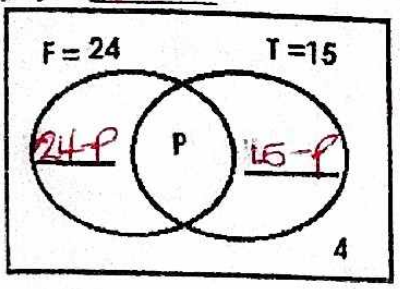
23. In a class of **36 boys**, **24 boys** like Football**(F)**, **15boys** like Tennis **(T)**, and some **boys like both games (P)** while **4 boys** don't like any of the two games.

$n(\xi) = 36$



(a) Complete the Venn diagram. **(3mks)**

(b) Find the value of **P**. **(2mks)**

$24-P+P+15-P+4=36$

$24+15+4-P=36$

$43-P=36$

$43-36=P$

$7=P$

(c) If a pupil is picked at random, find the number of pupil who likes only one type of game. **(1mk)**

Probability $= \frac{\text{NO FOC}}{\text{N-O-P OC}} = \frac{24-P+15-P}{36}$

$17+8$

36

$= \frac{25}{36}$

24. (a) What is the value of **6** in **2365(1mk)**

6×10

$= 60$

(b) Express **LXXV** in Hindu Arabic. **(2mks)**

LXXV

50 + 10 + 10 + 5

LXXV = 75

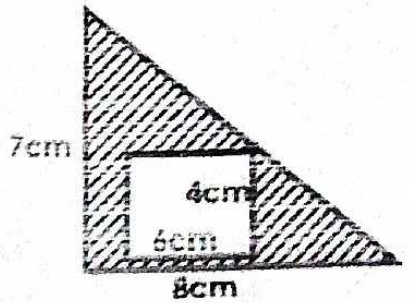
(c) Expand **8023** using values. **(2mks)**

PHFO

$(8\times1000)+(0\times100)+(2\times10)+(3\times1)$

$8000+20+3$

25.



(a) Find the **area** of the triangle. **(2mks)**

$A = \frac{1}{2}bxh$

$= \frac{1}{2} \times 8cm \times 7cm$

$= 4cm \times 7cm$

$A = 28cm^2$

(b) Calculate the **area** of the rectangle. **(2mks)**

Area = LXW

Area = $6cm \times 4cm$

Area = $24cm^2$

(c) Workout the **area** of the **shaded part**. **(2mks)**

Triangle − A of Rectangle

$28cm^2 - 24cm^2$

$A = 4cm^2$

26. (a) List down all **factors** of **15. (2mks)**

$1 \times 15 = 15$

$3 \times 5 = 15$

$F_{15} = \{1, 3, 5, 15\}$.

(b) Find the **L.C.M** of **12** and **8. (2mks)**

2	12	8
2	6	4
2	3	2
3	1	1

$2 \times 2 \times 2 \times 3$

4×6

LCM = 24

(c) Find the **square** of **12. (2mks)**

12^2

12×12

144

27. **Peter went shopping and bought the following items.**
4kg of salt at 600 each kg.
3 bars of soap at 6,000
$1\frac{1}{2}$ litres of oil at 1,000@ litres

(a) Calculate his total expenditure. **(4mrks)**

Salt

sh (4 × 600)

sh 2400

Soap

sh 6,000

Oil

$\frac{3}{2} \times 1000^{500}$

Sh 1500

Total

Sh 2400

+ sh 6000

sh 1500

sh 9900

(b) If he had **10,000**, calculate his change after paying for the items. **(2mrks)**

sh 10,000

Sh 9900

sh 100

28. (a) Simplify $\frac{3}{4}$ of **16 (2mrks)**

$\frac{3}{4}$ of 16

$\frac{3}{4} \times \frac{16}{1}^{2}$

3×2

$= 6$

(b) Workout $\frac{1}{4} - \frac{1}{3} + \frac{1}{2}$ **(2mrks)**

$\frac{1 \times 2}{4} + \frac{1 \times 2}{2} - \frac{1}{3}$

$\frac{1+2}{4} - \frac{1}{3}$

$\frac{2 \times 3}{4} - \frac{1 \times 4}{3} = \frac{6-4}{12}$

$= \frac{2}{12}$

$= \frac{1}{6}$

29. Use >, <or = to complete the statements below.

100cm = 1m

$1\frac{1}{2}$ dozen > 12 books

$\frac{1}{4}$ < $\frac{1}{3}$

7 x 0 < 10

0 10

(3)

1 x 12

4 1

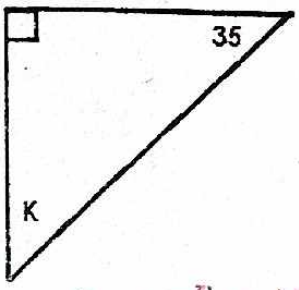
(4)

1 x 12

3 1

30. Use the figures below to find the value of un known angles. **(2mrks@)**

(a)



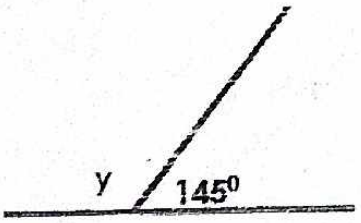
$K + 35^\circ + 90^\circ = 180^\circ$

$K + 125^\circ = 180^\circ$

$K + 125^\circ - 125^\circ = 180^\circ - 125^\circ$

$K = 55^\circ$

(b)



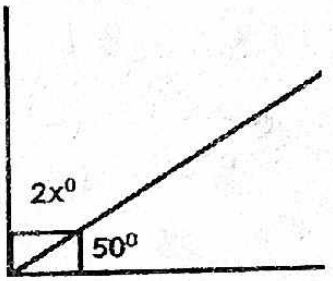
$y + 145^\circ = 180^\circ$

$y + 145^\circ - 145^\circ = 180^\circ - 145^\circ$

$y + 0 = 35^\circ$

$y = 35^\circ$

(c)



$2x^\circ + 50^\circ = 90^\circ$

$2x^\circ + 50^\circ - 50^\circ = 90^\circ - 50^\circ$

$2x^\circ + 0 = 40^\circ$

$2x^\circ = 40^\circ$

$\frac{2x^\circ}{2} = \frac{40^\circ}{2}$

$\frac{x^\circ}{1^\circ} = \frac{20^\circ}{1^\circ}$

$x = 20$

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31. Given that **a = 4, b = 5, x = 6.** Find;

(i) 2a + 3b (1mrk)

$2a+3b$

$(2\times4)+(3\times5)$

$8+15$

23

(ii) $3x - 2b$ (1mrk)

$3x - 2b$

$(3\times6) - (2\times5)$

$18 - 10$

8

(iii) $\frac{2x+2a}{b}$ (2mks)

$\frac{2x+2a}{b}$

$\frac{(2\times6)+(2\times4)}{5}$

$\frac{12+8}{5}$

$\frac{20}{5}$

4

32. Joel ate $\frac{1}{4}$ of his cake in the morning and $\frac{1}{3}$ of the same cake in the afternoon.

(a) What fraction of the cake did Joel eat altogether? **(2mks)**

$\frac{1\times3}{4} + \frac{1\times4}{3} \quad \frac{3+4}{12}$

$= \frac{7}{12}$

(b) Find the fraction of the cake that was left. **(2mks)**

$\frac{12}{12} - \frac{7}{12} = \frac{12-7}{12}$

$= \frac{5}{12}$

End