



# OUTREACH SCHOOLS EXAMINATIONS BOARD

## MID TERM III EXAMINATION 2023

### P.6 MATHEMATICS

*Time Allowed: 2 hours 30 Minutes*

**Pupil's Name:** .....

**Class:** .....

**School Name:** ..... **FOR EXAMINERS'**

**Read the following instructions carefully:**

1. This paper has two sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer all questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
5. All working must be done using a blue or black ball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated  
**"For examiners' use only"** and the boxes inside the question paper.

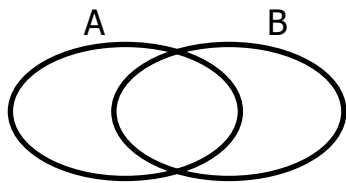
USE ONLY		
Qn. No.	MARKS	EXR'S No.
1 - 10		
11 - 20		
21 - 30		
31 - 32		
TOTAL		

**Turn Over**

**SECTION A (40 MARKS)**

1. Add: $2 + 45$	2. Solve for p: $3 + p = 10$
3. Simplify: $-7 - -4$	4. Write in words: 13,014
5. Find the LCM of 18 and 27.	6. Given that $\mathbf{A} = \{2, 3, 4\}$ . How many subsets has $\mathbf{A}$ ?
7. Find the average of 9, 5, 8 and 6.	8. Subtract $\frac{5}{6} - \frac{1}{3}$
9. Write 149 in Roman numerals.	10. Work out: $0.08 \times 0.3$
11 What is the place value of 9 in 24,936?	12. Add: $123_{\text{four}} + 231_{\text{four}}$ .

13. Shade  $A \cap B$  in the Venn diagram below.



14. 5 books cost shs.1500. How much will 3 similar books cost?

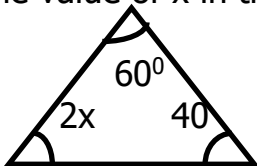
15. Round off 386 to the nearest hundreds.

16. Increase 200 bricks in the ratio of 5:4.

17. What is 30% of 4000/=?

18. What number has been expanded to give  $(3 \times 10^2) + (2 \times 10^1) + (6 \times 10^0)$ ?

19. Find the value of  $x$  in the figure below.



20. Prime factorize 64 and give your answer using set notation form.

**SECTION B (60 MARKS)**

21.a) Work out:  $\frac{0.16 \times 0.3}{0.04}$  **(2mks)**

b) Express  $\frac{3}{4}$  as a percentage **(2mks)**

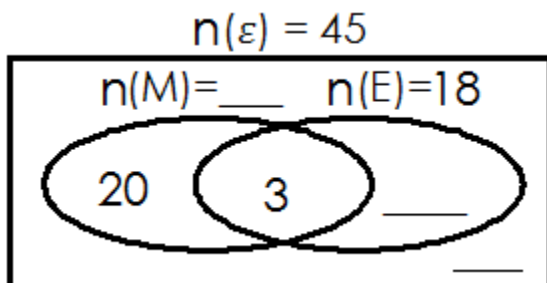
22. John and Henry shared 40,000/= in a ratio of 3:7 respectively.

a) How much money did each get? **(3mks)**

b) How much more money did Henry get than John? **(2mks)**

23. In a class of 45 pupils, 20 like Maths (M) only and 18 like English (E).

If 3 pupils like both subjects and x pupils like neither of the two subjects. Complete the Venn diagram. **(3mks)**

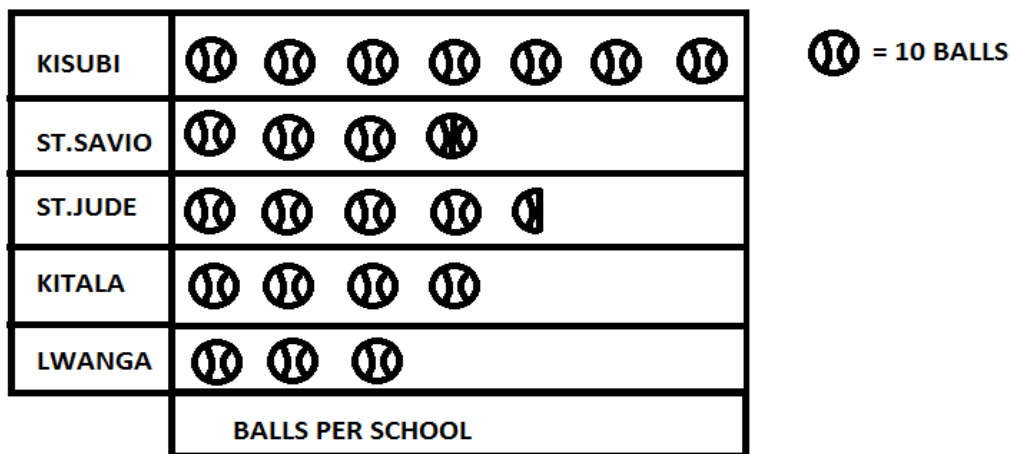


b) Find the value of x. **(2mks)**

c) How many pupils do not like English?

**(1mk)**

24. The pictograph below shows the number of balls that were given to each of the five schools in Kisubi.



a) Find the modal number of balls

**2marks**

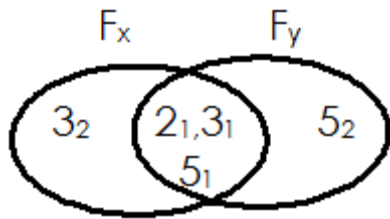
b) Find the least number of balls given out.

**2marks**

c) How many balls did St. Jude get?

**2marks**

25. Study the Venn diagram below and answer the questions that follow.



a) Find the value of  $x$ . **(1mk)**

b) Find the value of  $y$ . **(1mk)**

c) Calculate the GCF of  $x$  and  $y$ . **(2mks)**

d) Work out the LCM of  $x$  and  $y$ . **(2mks)**

26. A man went to the shop and bought the following items:

- 3kgs of rice at sh.4000 per kg.
- $1\frac{1}{2}$ kg of sugar at sh.8000.
- Two pineapples for sh.2500 per pineapple.

a) Find his total expenditure. **(4mks)**

b)Decrease his total expenditure by 20%**(2mks)**

27a) Increase 800/= by 10% **(2mks)**

b)Decrease 500 in the ratio of 3:5**(2mks)**

28. The sum of 3 consecutive counting numbers is 36.

a) Find the numbers? **(4mks)**

b)What is the difference between highest number and the lowest number? **(2mks)**

29 a) Simplify  $\frac{1}{4} - \frac{1}{4} + \frac{3}{4}$ **(2mks)**

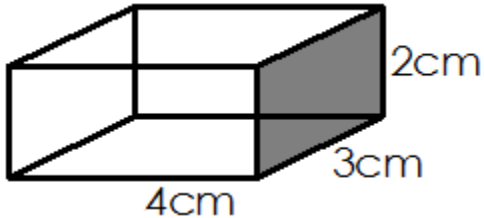
b). Express  $\frac{1}{4}$  as a decimal fraction.**(2mks)**

30a) Solve:  $2x + 2 = 10$  **(2mks)**

b). Simplify:  $3x + 6y + x - 2y$  **(2mks)**

31. The figure below is a cuboid, answer the questions given.

a) How many faces does it have?**(1mark)**



b) Calculate the area of the shaded part? **(2mks)**

c) Calculate its volume. **(2mks)**

32. The table below shows the exchange rates of different currencies against the Uganda shilling(USH).

Currency	Buying(USH)	Selling(USH)
US dollar(\$)	3600	3650
Kenya shilling(KSH)	29	30
Japanese Yen(¥)	250	260

(a) If Peter has \$100, how much money does he get in USH?**2marks**

(b) If Mary has USH. 60,000, how much money does she get in KSH?**2marks**

**END**