



# BROAD EXAMINATIONS®

## P.6 MATHEMATICS EXAMINATION END OF TERM II 2023

Time allowed: 2 hours 30 minutes

Pupil's Name: .....

School Name: .....

District Name: .....

**Read the following instructions carefully:**

1. This paper is made up of two sections: A and B.
2. Section A has 20 questions (40 Marks)
3. Section B has 12 questions (60 Marks)
4. Answer **ALL** questions in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINERS'  
USE ONLY

PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		


Teacher's comment to the learner

Approved by:

Team Head Mathematics Dept.

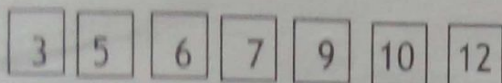


SECTION .A. (40 Marks)

1.	Work out: $45 - 14$ .	2.	Find the square root of 36.
3.	Find the first two equivalent fractions of $\frac{3}{4}$	4.	Find the value of 2 in the number $123_{\text{five}}$
5.	Given that  = 5 bottles, draw pictures that represent 20 bottles.	6.	Six boys can clean the compound in 4 days. How many more boys are needed to clean the same compound in only 3 days?
7.	Given the digits; 7, 2, and 9, form the largest and smallest three - digit numbers that can be formed using the digits. (i) largest       (ii) smallest	8.	Using a ruler, pencil and a pair of compasses only, construct an angle of $60^\circ$ .

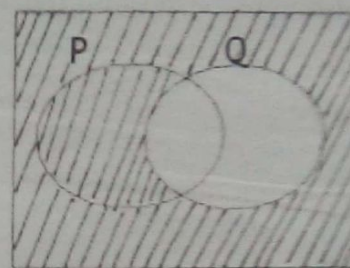


9. The drawings below show cards with numbers written on them.



The cards were put in a sack. If a person is asked to pick a card at random, what is the chance of picking a card that contains a prime number?

10. Describe the shaded region in the diagram below.



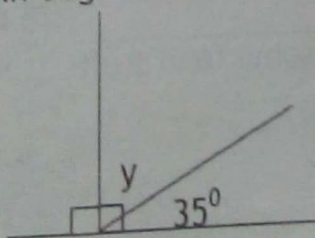
11. Divide:  $\frac{1}{3} \div \frac{2}{9}$

12. Express 300cm into metres.

13. Increase 600ml by 30%.

14. Simplify:  $4c + 3c - 5c$

15. In the diagram below, find the value of  $y$  in degrees.



16. If 1 pound sterling is equivalent to Ugs 4550 at a Forex Bureau, how much money in Uganda shillings is equivalent to 140 pound sterling?

17. Without dividing, show which of the numbers 122 and 102, is divisible by 3.

18. Solve for K;  $2k - 8 = 12$

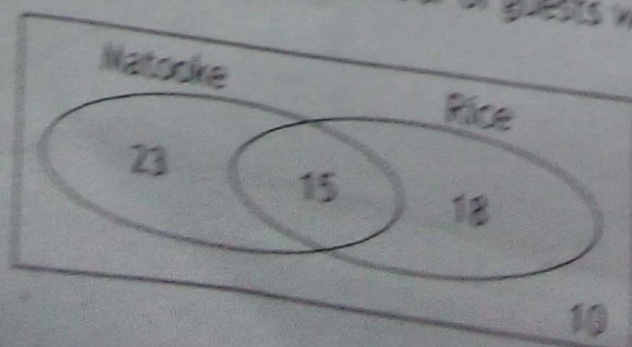
19. The average of 8, 7, n and 4 is 6, find the value of n.

20. Work out;  
Sh. 2000  
- Sh. 1200  
\_\_\_\_\_

SECTION B (60 Marks)

A man who deals in selling poultry birds bought 3 cocks and 5 hens at sh. 150,000 altogether. When he took them to the market, he sold each hen for sh. 20,000 and each cock at sh. 30,000. Find the profit the man made after selling all birds.

The venn diagram below shows the number of guests who ate some food stuffs at Kelly's birthday party. (5 Marks)





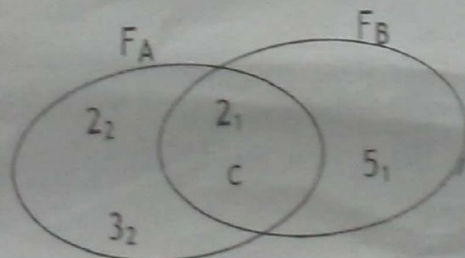
<p>(a) How many guests ate; (i) Matooke?  (ii) Rice?</p>	<p>(b) Find the total number of guests who attended the party.</p>
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(5 Marks)

23. Three girls Ruth, Rossette and Robinah shared 36 books in the ratio of 2: 1: 3 respectively. How many books did each get?

(6 Marks)

24. The venn diagram below shows the prime factors of A and B. Use it to answer questions that follow.



Given that the GCF of A and B is 6;

- |                                 |   |
|---------------------------------|---|
| <p>(a) Find the value of c.</p> | <p>(b) Work out the LCM of A and B.</p> |
|---------------------------------|---|

(5 Marks)







28.	(a) What distance does a motorist moving at a speed of 45km/hr cover in 2 hours?	(b)	A cyclist covered a distance of 30km in 40 minutes. Find his average speed.
(4 Marks)			
29.	In Kitara village, there are 900 people, 60% of them are adults and the rest are children.		
(a)	Find the percentage of children in the village.	(b)	How many adults are in the village?
(c)	If $\frac{1}{3}$ of the children are boys, how many girls are in the village?		
(6 Marks)			
30.	(a) Using a ruler, pencil and a pair of compasses only, construct a square ABCD of sides 5cm.		

(b)	Measure its diagonals.		(5 Marks)														
31.	A parent borrowed sh. 500,000 from a village SACCO at a simple interest rate of 2% per month to be paid back after 3 months.																
(a)	How much interest did the parent pay?	(b)	Calculate the amount of money the parent paid altogether.														
		(5 Marks)															
32.	The table below shows the ages of some children in a group.																
<table border="1"> <tr> <td>Age in years</td> <td>6</td> <td>4</td> <td>8</td> <td>10</td> <td>9</td> <td>12</td> </tr> <tr> <td>No. of children</td> <td>2</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>1</td> </tr> </table>				Age in years	6	4	8	10	9	12	No. of children	2	3	3	2	2	1
Age in years	6	4	8	10	9	12											
No. of children	2	3	3	2	2	1											
(a)	How many children were in the group?	(b)	Calculate the total number of children with age below 10 years.														
(c)	Work out the median age.																
		(6 Marks)															

END