

**BUGANDA EXAMINATIONS COUNCIL (BECO)**  
**PRIMARY SEVEN MOCK EXAMINATIONS - 2022**  
**MATHEMATICS**

**Time Allowed: 2hours 15 minutes**

Index No.

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Candidate's Name .....

Candidate's signature.....

School Name .....

District Name.....

**READ THE FOLLOWING INSTRUCTIONS**

1. The paper has two sections: **A** and **B**
2. Section **A** has 50 questions (50 marks)
3. Section **B** has 5 questions (50 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 of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes. They are for examiners' use only

**FOR EXAMINERS' USE ONLY**

<b>Qn. No.</b>	<b>Marks</b>	<b>Examiner's No.</b>
1- 10		
11 – 20		
21 – 30		
31 – 40		
41 – 50		
51		
52		
53		
54		
55		

## **SECTION A**

**Questions 1 to 20 carry two (02) marks each.**

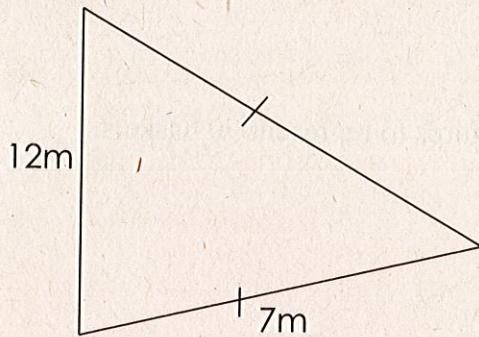
1. Divide:  $15 \div 3$
2. Given that  $M = \{a\}$ , list all the sub sets in  $M$ .
3. Conrad sold a book at sh. 5,000 and got a loss of sh. 1000. Find the price at which he bought the book.
4. Express 12:50pm as a 24 hours clock system reading.
5. Workout  $5.4 \div 0.9$ .
6. How many  $\frac{1}{4}$  packets of sugar can fill a 9 kg container?
7. Simplify  $2(h - m) - (m + h)$

8. The average mass of 3 boxes is 70 kg. the mass of 2 of them is 80 kg and 75 kg respectively.

Find the mass of the 3<sup>rd</sup> box.

9. Write "five thousand, five hundred five" in figures.

10. Find the perimeter of the figure below.



11. Find the lowest Common Multiple (LCM) of 12 and 18.

12. Round off 49.97 to the nearest whole number.

13. Workout :  $1 \frac{1}{2} \times \frac{1}{4} \div \frac{2}{3}$

14. Using a protractor, a ruler and a pencil only, draw an angle of  $47^{\circ}$  in the space provided.

15. If  represents 15 baskets, draw pictures to represent 90 baskets.

16. Chemutia read a novel from page 17 to page 23 consecutively.  
How many pages did Chemutai read?

17. Find the sum of the value of 9 and the place value of 4 in 79423.

18. Alice ate twice as many apples as Peter and Carol ate two more apples than Peter. If Peter ate 2 apples, how many apples did they eat altogether?

19. A meter reader told Sharifah that she had used 3 units of water, if each unit is 1 cubic metre. How many litres of water had Sharifah used?

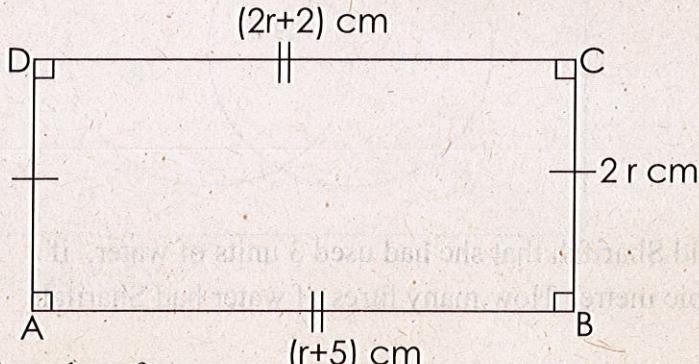
20. Workout:  $17 + 3$

## **SECTION B (60marks)**

**Answer all questions in this section**

**Marks for each question are indicated in brackets.**

21. Study the figure below and answer the questions that follow;



- a) Find the value of  $r$ . (02marks)

- b) Work out the length of diagonal AC. (02marks)

- c) Calculate the area of the above figure. (02marks)

22. (a) Simplify:  $\frac{5^4 \times 5^3}{5^5 \div 5^2}$  (03marks)

b) Write 362000 in standard form. (02marks)

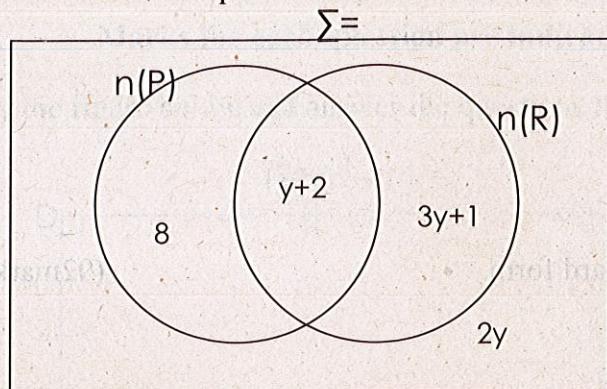
23. The table below shows the marks scored in a home work piece.  
Study and use it to answer the questions that follow.

Marks scored	Frequency	Total marks
4	4	16
_____	9	45
7	8	_____
9	6	_____

a) Complete the table. (03marks)

b) How many pupils are in the class altogether? (02marks)

24. The Venn diagram below shows a class of pupils who like posho (P) and Rice (R). Some of them like both meals while 21 pupils do not like posh. Use it to answer the questions that follow.



- a) Find the value of  $y$ . (02marks)
- b) Work out the total number of pupils in the class. (02marks)
- c) Find the probability of choosing, at random, a pupil who likes posho only. (01mark)

25. (a) Lydia, Dorothy and Shamin shared money in the ratio 3:5:1 respectively. If Lydia received shs. 4000 more than Shamin, find the total amount of money they all shared. (03marks)

b) How much money did Dorothy receive? (02marks)

26. Nambi bought the following items from a shop.

2kg of rice for shs. 3200 per kg.

1  $\frac{1}{2}$  kg of sugar for shs. 3600 per kg

Salt for shs. 1500 for shs. 2000 per kg

a) Calculate her total expenditure. (03marks)

b) How much salt did she buy? (02marks)

27. The cost of a goat is 7 times the cost of a hen.

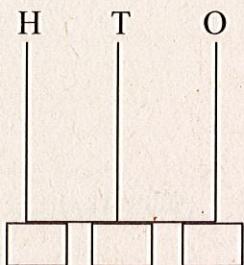
a) A trader bought both a goat and a hen for shs. 104,000.

Find the cost of each of the two animals. (04marks)

b) The sum of three consecutive counting numbers is 126, find the numbers.  
(02marks)

28.(a) Using a pair of compasses, a ruler and a pencil only, construct a triangle HGF where HG=7.5 cm angle HGF=90° and angle FHG=30°. Drop a perpendicular from G to meet FH at K. (05marks)

29.(a) Show 705 on the abacus below. (02marks)



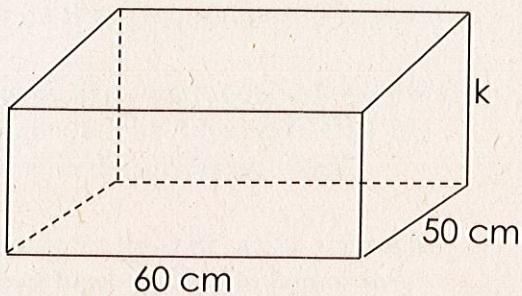
b) Expand the number using place value. (02marks)

30. The enrolment of a school was 4000 pupils. Due to effects of COVID-19, the enrolment reduced by 10%.

a) How many pupils are there now? (03marks)

b) If each pupil gets 2 face masks and pay shs. 2000 for each face mask, how much money do they pay altogether? (02marks)

31. Study the figure below and answer the questions that follow;



a) The capacity of the tank above is 120 litres. Find the height of the tank.  
(03marks)

b) Work out the volume of the tank when it is  $\frac{2}{3}$  full of water.

(02marks)

32. A girl left home at 7:30 am riding a bicycle and reached town P at 10:10am. The distance from the girl's home to town P is 30 km. The girl then left town P for her home at 4:00 pm.

a) Find the average speed of the girl from home to town P. (03marks)

b) At what time did she reach home if she used a speed of 15km/h?  
(02mks)

**END**