



THE REPUBLIC OF UGANDA

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**MBALE CITY PRIMARY SCHOOLS' HEADTEACHERS'
ASSOCIATION ACADEMIC BOARD
PRIMARY LEAVING MOCK EXAMINATION**

2022

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Index No.	Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:.....

School Random No.

District ID:

Read the following instructions carefully;

1. This paper has two sections A and B
2. Answer all questions. All answers to both sections A and B must be written in the spaces 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 hand writing that can not easily be read may lead to loss of marks.
6. Do not fill any thing in the boxes shown:
"For Examiners' Use only" and those inside the question papers

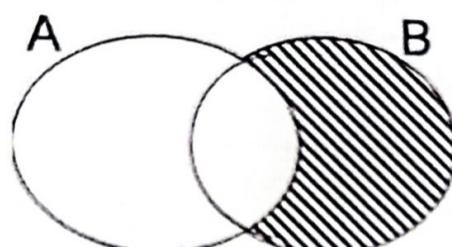
FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR's No.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Section A (40 Marks)

Answer all questions (Questions 1 to 20 carry two marks each)

1. Work out 16×10

2. Describe the shaded part in the venn diagram



3. Express CCCIX in Hindu Arabic numerals.

4. Simplify $\frac{2}{6} \times \frac{3}{4}$

5. Workout $*3 \times 2$ on the number line below.



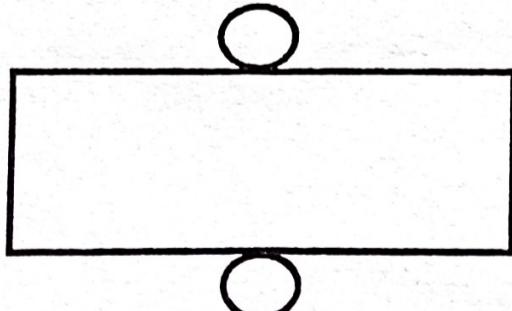
6. Find the sum of the next two numbers in the sequence.

0, 2, 5, 10, 17 _____

-
7. Round off 87. 2563 to the nearest hundredths.

-
8. There are 3 blue pens and 4 red pens in a box. What is the probability of picking a red pen at random?

9.



What solid figure is formed when the net above is folded?

10. Sarah bought 4 cakes at sh. 8,000. What is the cost of 6 similar cakes?

11. An examination started at 9:35am and ended at 12:05pm. For how long did it last?

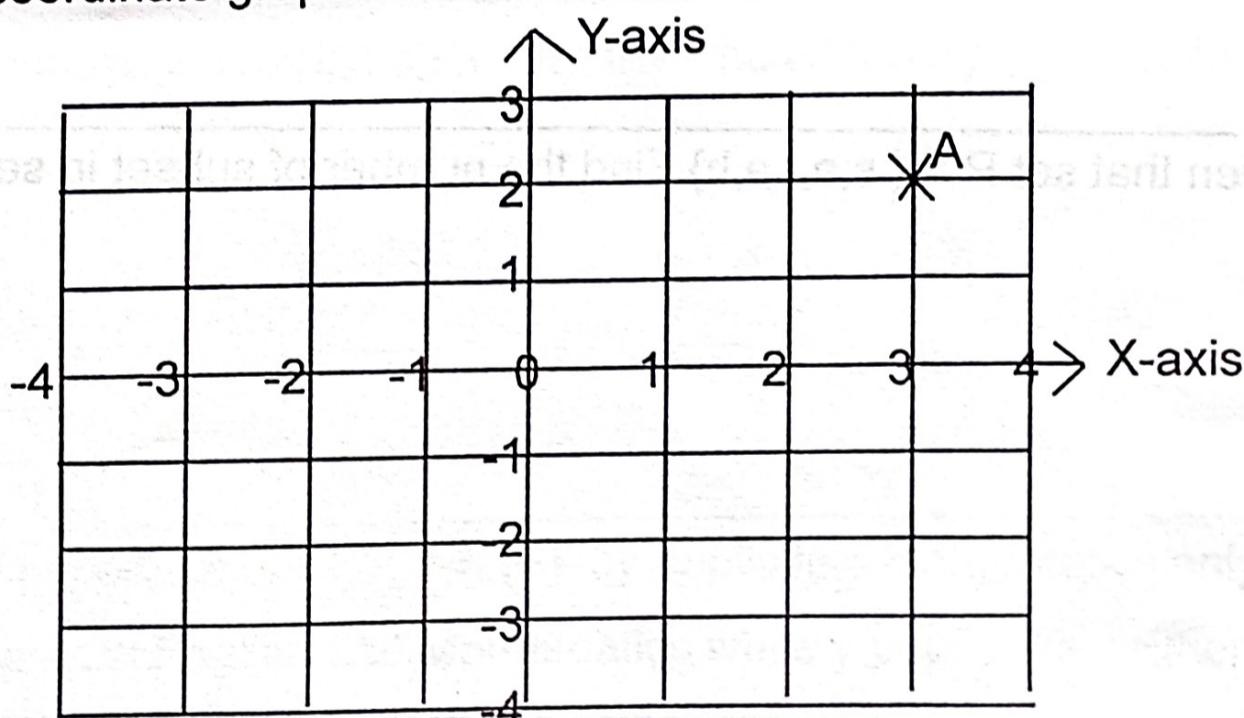
12. Using a ruler, pencil and a protractor only, draw an angle of 75°

13. Find the Greatest common factor of 12 and 30.

14. Find the area of a circular kraal whose diameter is 20m (Use $\pi = 3.14$).

15. Solve the inequality: $2 - 2y < 6$

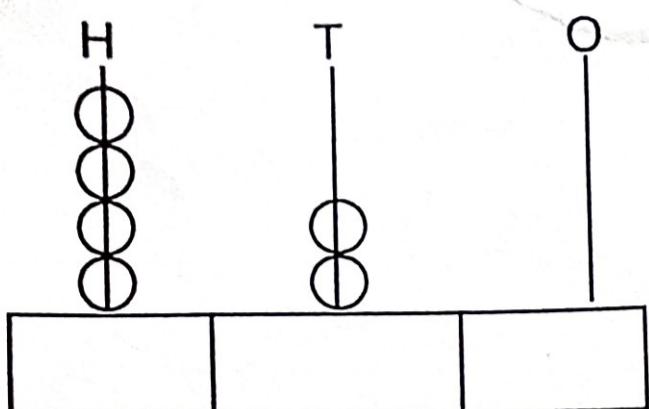
16. Study the coordinate graph below:



(i) Write the co-ordinates of point A (01 mark)

(ii) Plot the point B (-2, -3) on the grid above. (01 mark)

17. Write the number shown on the abacus in words.

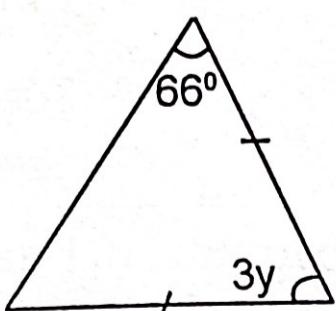


18. Given that $P = 6$ and $r = -5$

Find the value of $\frac{Pr}{r}$

19. Given that set $R = \{ s, a, r, a, h \}$ Find the number of subset in set R.

20. Find the value of y in the diagram below



SECTION B (60MARKS)

Answer all questions in this section.

Marks for each question are indicated in the brackets

21. (a) Work out.

$$\frac{0.27 \times 0.06}{0.9 \times 0.3} \quad (03 \text{ marks})$$

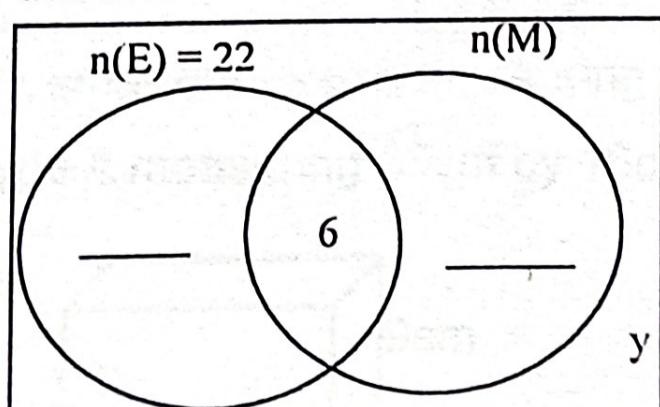
- b) Simplify

$$\frac{1}{2} \times \frac{2}{3} \div \frac{3}{4} \quad (02 \text{ marks})$$

-
22. A motorist left town A for town B driving at a speed of 80km/h for $2\frac{1}{2}$ hours.
He then continued to town C covering a distance of 40km in $1\frac{1}{2}$ hours.
Calculate the motorist's average speed for the whole journey. (04 marks)

23. In a class of 50 pupils, 22 like English (E), 3y pupils like Mathematics only (M), 6 pupils like both English and Mathematics while y pupils like neither of the two subjects.

- a) Use the information above to complete the Venn diagram below:



(02marks)

b) How many pupils like Mathematics.

(03marks)

24. A P.7 pupil went to the market and bought the following items;

2kgs of sugar each at sh. 3,500

2 $\frac{1}{2}$ kg of meat at sh. 12000 per kg

500g of salt at sh. 1,200 per kg

5 heaps of tomatoes at sh. 6,500

a) What was his total expenditure?

(04 marks)

b) If he was given a change of shs. 5,900, how much money did he go with?

(01 mark)

25. a) Using a ruler, a pencil and a pair of compass only, construct a parallelogram WXYZ where $WX = 7\text{cm}$, line $XY = 5\text{cm}$ and angle $WXY = 120^\circ$.

Drop a perpendicular line from Z to meet line WX at M

(05 marks)



(b) Measure the length of line MZ

(01mark)

26. a) Find the product of the value of 5 and value of 3 in 65234 (03marks)

b) Divide the value of 8 by the place value of 2 in the number 18425 (02marks).

27. The table below shows the marks scored by P.7 pupils in Mbale City Mock examination in St. Francis Primary School. Use it to answer questions that follow

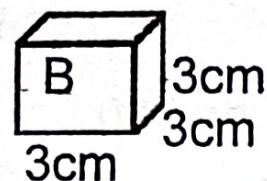
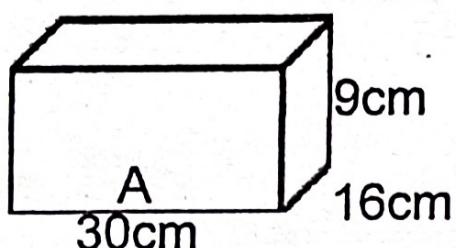
Marks scored	60	70	85	90
Number of pupils	3	4	2	1

a) How many pupils did the mock examination. (01 mark)

b) Find the median mark scored (02 marks)

c) Calculate the average mark scored (02 marks)

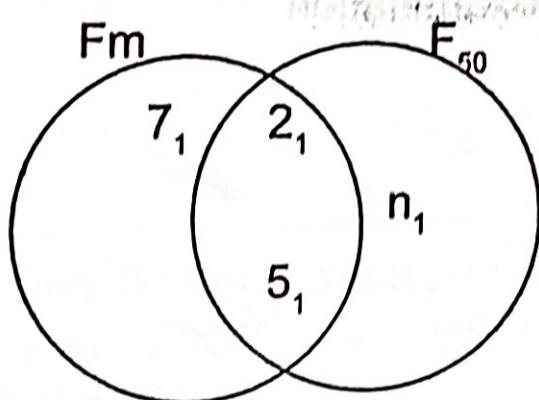
28. In a factory, small cubes of B measuring 3cm by 3cm by 3cm were packed into a box of type A measuring 30cm by 16cm by 9cm



- a) How many layers can be packed into a big box A? (01mark)
- b) How many small boxes will fill the box A? (01 marks)
- c) Calculate the value of the space left to be filled in the big box A. (03 marks)

29. The two members were prime factorized as shown in the venn diagram below.

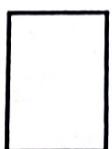
Use it to answer the questions that follow.



- a) (i) Find the value of n (02marks)
- (ii) Find the value of m (02marks)
- b) Work out the LCM of m and 50 (02marks)

30. a) Given that $x = 2y - 1$,
Find the value of y if $x = 5$ (02marks)

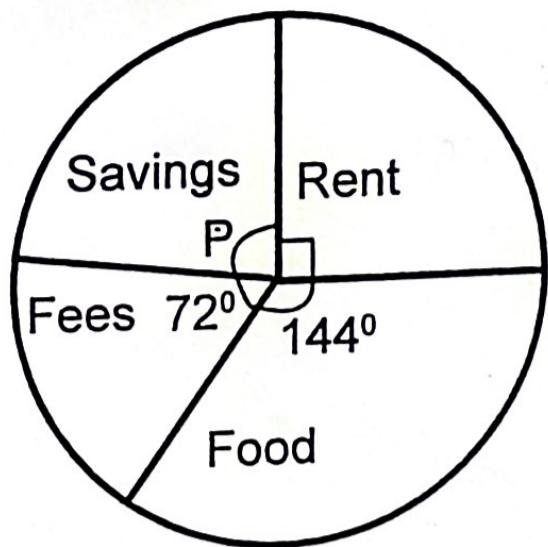
(b) A father is 48 years old and his son is 17 years old. At what age will the father be twice as old as his son? (03marks)



31. a) Ochaga deposited sh. 600,000 in his savings account at a simple interest rate of 15% per annum for 3 months. Calculate the simple interest he got at the end of 3 months. (02marks).

b) The amount of milk got from a dairy last week was 200 litres. This week, there is an increase of milk in the ratio of 7:5. How much milk does the dairy have? (02marks)

32. The pie chart below shows how Mr. Munene spends his monthly saving. Use it to answer questions that follow:



- a) Find the value of P in degrees. (02marks)
- b) If he saves sh. 108,000, how much money does he earn per month? (02 marks)
- c) What percentage of his salary does he spend on rent ? (01 mark).