



KAMPALA CAPITAL CITY AUTHORITY

DIRECTORATE OF EDUCATION AND SOCIAL SERVICES

PRIMARY SEVEN MOCK EXAMINATIONS 2023

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

INDEX NO:

EMIS No.					Personal No.		

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

EMIS No:

DIVISION 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 Blue or Black
Ball - point pen or ink
6. Un-necessary changes in your work may lead
to loss of marks.
7. All diagrams **MUST** be drawn in pencils.
8. Any handwriting that cannot be easily read may
lead to loss of marks.
9. Do **not** fill any thing in the boxes shown

"For Examiner's use only".

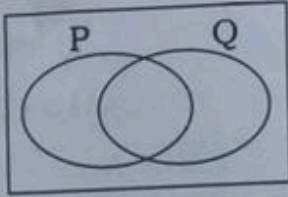
FOR EXAMINERS' USE ONLY

QN. NO.	MARKS	SIGN
1 - 10		
11 - 20		
21 - 25		
26 - 30		
31 - 32		
TOTAL		

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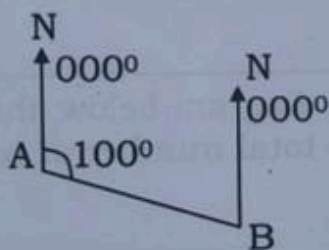
TURN OVER

SECTION A

1. Workout: $6 \div 3$	2. Shade the region representing $(P \cap Q)^c$, in the Venn diagram below. 
3. Using distributive property to workout: $(81 \div 7) - (11 \div 7)$	4. Write the number 2023 in words.
5. Find the next number in the sequence given below. 2, 4, 7, 12, 19, _____	6. Solve the inequality: $3 - 2m < 7$
7. Express $\frac{13}{20}$ as a decimal fraction.	8. The temperature on the top of the mountain was 5° celcius, at 11:00am. By 2:00pm, the temperature rose to 8° celcius. Find the new temperature on the top of the mountain.

9.	Mariam scored the following marks her daily mental work exercise for for a week 7, 6, 6, 7, 2, 6, 8 . What was her modal score?	10.	A cyclist rode at a steady speed of 54 kilometer per hour. What was his speed in metres per second?
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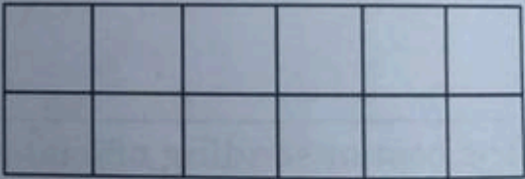
11. In the diagram below, find the bearing of **A** from **B**.



12. The cost of sending official announcement on a community radio is as follow.

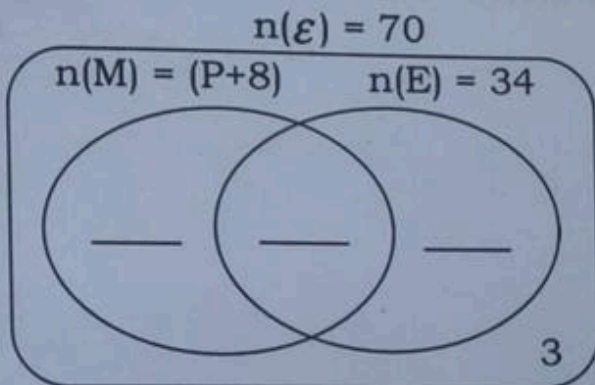
Ug. Sh. 20,000 for the first 30 words
Ug. Sh 1,000 for each extra word

Find the cost of sending an announcement of 45 words through the community radio.

13. Convert 0.04m^2 to cm^2	14. Simplify: $K^2 - 3K + 2K^2 + 3K$
15. If Set $A = \{c, o, w\}$, find the number of subsets in set A .	16. Write CIV in Hindu Arabic numerals.
17. Given that prime factors of $Y = 2^2 \times 3$ and prime factors of $X = 2^1 \times 3^2 \times 5^1$. Use the given prime factors above to find the LCM of X and Y .	18. In the diagram below shade 25% of the total number of squares. 
19. Using a ruler, a pencil and a pair of compasses only, construct an angle of 105° in the space provided below.	20. A pen costs sh. $(2,000 + k)$ if it costs twice as much as a book write an expression for the cost of a book.

SECTION B

21. In a class of **70** pupils, **34** like English (E), **(P+8)** like Mathematics (M), **8** like both subjects and **3** like neither of the two subjects.
- a. Using the information above complete the Venn diagram below.



(3marks)

- b. How many pupils like Mathematics?

(2marks)

22. Express **24.009** in standard form.

(2marks)

- b. **Workout:** $11_{\text{two}} \times 11_{\text{two}}$

(2marks)

- c. Find the value of **2** in the number **1201_{five}**.

(1mark)