



SERERE DISTRICT PRIMARY SCHOOLS
MOCK 2023
PRIMARY SEVEN



MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Index No.	Random No.					Personal No.		

Name:

School:

Signature:

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**FOR EXAMINERS'
USE ONLY**

1. The paper has 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. 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 alteration 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 indicated for examiners use only.

QN. NO	MARKS	EXR'S NO
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

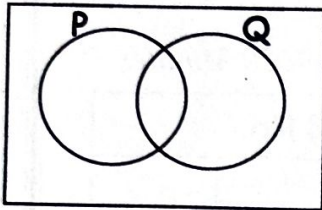
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SECTION A (20 QUESTIONS - 40 MARKS)

1. Multiply: 4×15 (using repeated addition)

2. Write 4,042 in words.

3. In the Venn diagram below shade $(P)^1$



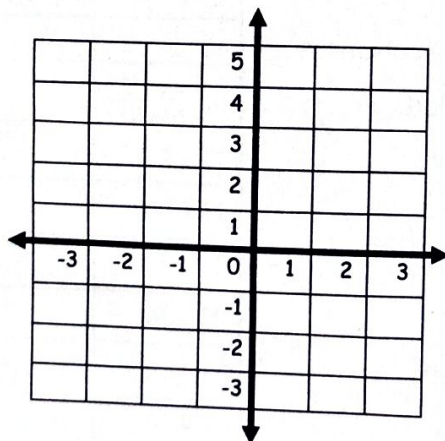
4. Find the LCM of 6 and 8.

5. Round off 9,745 to the nearest thousands.

6. Simplify: $\frac{1}{2} \div \frac{1}{4}$



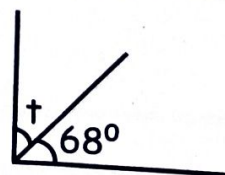
7. Plot point R (-2, 3) on the grid below.



8. Workout $(32 \times 96) + (32 \times 4)$ Using distributive property.

9. Simplify: $+4 - -2$

10. Find the size of angle marked t



11. Given that $r = -2$, $S = 9$ and $t = -3$, find the value of $\frac{rs}{t}$

12. Express 362.7 in scientific notation.

13. Find the next number in the sequence below 125, 64, 27, _____

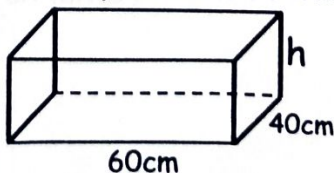
14. Express 5mls as Km /hr

15. A head teacher borrowed shs.200, 000 from Serere district teachers' SACCO at an interest rate of 5% for one year. Calculate his simple interest.

16. A bus left Serere town at 11:45 am and reached Mbale at 1:05pm, for how long did the bus take on the way.

17. The ratio of boys to girls in kateta model primary school is 1:2, if there are 720 girls in the school. Find the number of boys in the school.

18. The volume of the tank below is $120,000\text{cm}^3$. Find the height.



23. The diagonals of a rhombus are 16cm and 12 cm respectively.

(a) Calculate the area of the rhombus
(2marks)

(b) Workout the perimeter of the rhombus.
(3marks)

24. Three children are aged $(2y+5)$, $(3y-10)$ and $(y+3)$ years. Their total age is 34 years.

(a) Find the value of y .
(3marks)

(b) What is the age of the youngest child?
(2marks)

25. a) Mr Okello took $3\frac{1}{4}$ hours traveling from his village to Kampala.

(a) Express the time he spent traveling in minutes
(2marks)

b) If he started traveling at 7:30am at what time did he arrive at Kampala
(2marks)

(c) If he was travelling at a speed of 80km/hr, how far is his home from Kampala? (2marks)

26. (a) Given that $a=3$, $b=4$, and $c=5$,
Find the value of $bc-ab$ (2marks)

(b) Solve $-2x + 1 \leq 9$ (2marks)

27. (a) Workout: 1011_{two} (2marks)
 $\underline{111_{\text{two}}}$
 $\underline{\hspace{2cm}}$

(b) Find the unknown base. $43_k = 102_{\text{five}}$ (3marks)

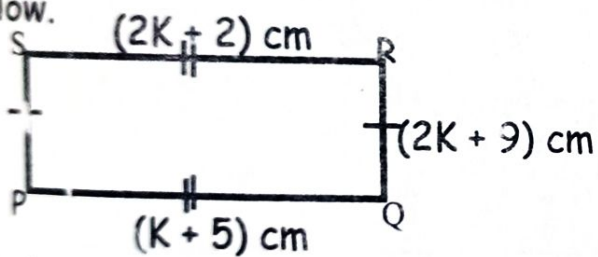
28. (a) Using a ruler, pair of compasses and pencils only, construct triangle PQR in which line PQ = 6cm and angle PQR = 45° and angle RPQ is 60° (4marks)

(b) Measure line PR

(1mark)

29. The figure below shows a rectangle.

Use it to answer questions that follow.



(a) Find the value of K.

(2marks)

(b) Find its area.

(2marks)

(c) Calculate its perimeter.

(2marks)

30. Workout

$$\frac{0.54 - 0.06}{0.2 \times 0.8}$$

(3marks)

(b) Express $\overline{0.11}$ as a common fraction.

(2marks)

31. Babra went to shop and made the following purchase.

3kgs of suger at shs. 4800 each k ogram.

$1\frac{1}{2}$ kgs of rice at shs 5000 per kilo.

$1\frac{1}{2}$ litres of cooking oil at shs 9000 per little.

8 oranges at shs 50 per orange.

If Babra remained with shs 4200 only, how much money did she have at first? (6marks)

32. (a) Expand 893 using powers.

(2marks)

(b) Write 0.0042 in scientific notation (2marks)

(a) Solve: $2^3 \times 4^0 =$ (2marks)

END