



THE PRIME EXAMINATIONS 2023

PRIMARY SEVEN BEGINNING OF TERM I MATHEMATICS (*Abridged Curriculum*)

Time allocated 2 hours 30 minutes



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: A and B. Sections A has 20 (40 Marks) questions and Section B has 12 questions. (60 Marks)
2. Answer **ALL** questions. All the working for both sections A and B must be shown in the spaces provided.
3. **All working must** be done using a **blue or black** ball point pen or ink. Any work done in pencil other than on graphs and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated

"FOR EXAMINERS' USE ONLY"

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THE PRIME SCHEMING FRAMEWORKS, PUPILS' WORKBOOKS, LIT/SONG/RESOURCEBOOKS, HOLIDAY PACKAGES, LEARNING GAMES, REVISION BOOKS, THE ANALYSIS REPORTS AND MANY MORE.

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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

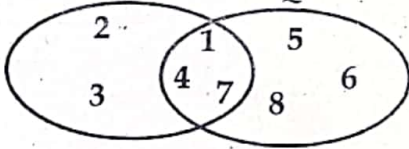
Consultant

Mathematics Department (PEC)

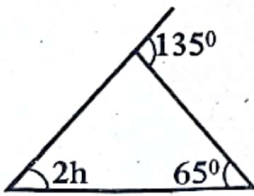
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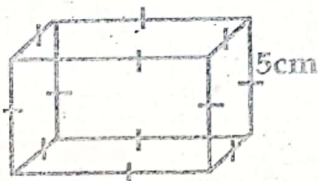
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Section A. (40 Marks)

1	Workout: $435 - 215$	2	Write 45 in Roman numerals.
3	<p>Given</p>  <p>Find $n(P \cup Q)$</p>		
4	Work out: $\frac{5}{8} + \frac{2}{8}$	5	Find the next number in the sequence. 30, 26, 23, 19, 16, _____
6	Using a pair of compasses, construct an angle of 90° .		

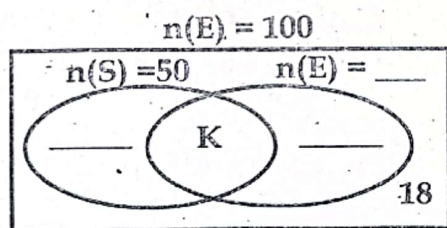
7	Write the number expanded to give: $(7 \times 10^2) + (4 \times 10^0) + (3 \times 10^{-1})$.	
8	Write down the mathematical statement shown on the number line below.	
9	Solve $6 + 2k = 10$	10
		Namata bought 4 packets of milk of 500ml each. How many litres of milk did she buy?
11	Maseruka scored the following marks in a series of tests; 75, 80, 90, 50, 0, 80, 70. Find the probability of picking a mark below 79 marks.	

12	Workout: $\begin{array}{r} 103_{\text{five}} \\ - 44_{\text{five}} \\ \hline \end{array}$	13	Four apples cost sh.3200. Find the number of apples you can buy with sh.4800.
14	Round off 2498 to the nearest tens.	15	The average mass of 4 girls is 45kg. Find their total mass.
16	Find the value of h in the figure below. 		

17	Kaamani deposited sh.400,000 in a bank which offers an interest rate of 4% per month. Calculate the interest he got after 4 months.	18	A cyclist covered 8km in 30 minutes. Find his speed in kilometres per hour.
19	Given that $m = 9$ and $n = 4$, find the square root of mn .	20	Calculate the volume of the cube below. 

Section B. (60 Marks)

- 21 In a class of 100 pupils, 50 pupils like Science (S), K + 12 like English (E) only, K like both Science and English while 18 like neither of the two drinks.
(a) Use the information given above to complete the Venn diagram below.



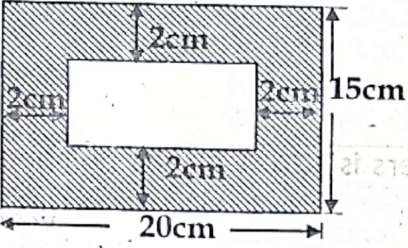
(03 marks)

- (b) How many pupils like English?

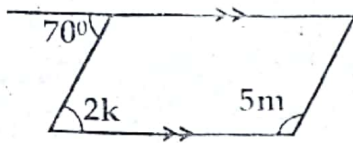
(03 marks)

22	Kawooya bought 20 fresh fish at sh.8000 each. He later sold 12 fish at sh.9000 each and the rest at sh.10,000 each. Calculate the profit Kawooya made. (05 marks)
23	Workout: $\frac{0.64 + 0.26}{0.36 - 0.06}$ (04 marks)
24	A motorist left town A and traveled for 3 hours at an average speed of 60km/hr to town B. He returned at a speed of 90km/hr. (a) How far is town B from town A? (03 marks)

	(b) Calculate the motorist average speed for the whole journey. (02 marks)
25	The sum of three consecutive counting numbers is 126. Find the numbers. (05 marks)
26	(a) Using a pair of compasses, a ruler and a pencil only, construct triangle PQR in which $PQ = 7\text{cm}$, $PR = 6\text{cm}$ and angle $QPR = 60^\circ$ (04 marks)

	(b) Measure line QR. (01 mark)	
27	<p>Study the figure below and find the area of shaded part. (05 marks)</p> 	
28	<p>In a P.6 parents meeting, the number of male parents was twice the number of female parents. If there were 90 parents in the meeting, find the number of male parents. (05 marks)</p>	

29. Study the figure below carefully and use it to answer the questions below.



(a) Find the value of k .

(03 marks)

(b) Find the value of m .

(02 marks)

30. The table below shows marks obtained by a pupil of P.6S in a certain test. Study it carefully and answer the questions below.

Marks	20	55	60	80
Number of pupils	15	20	y	5

(a) If 50 pupils did the test, find the value of y .

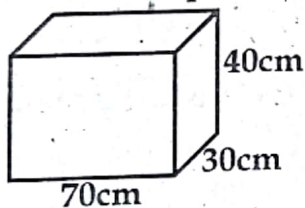
(02 marks)

(b) Calculate the mean mark of the pupils.

(03 marks)

- 31 A man shared 120 hectares of land to his three children; **Andrew, Joseph and Timothy** in the ratio of **4:5:6** respectively.
- (a) How many hectares of land did each get? (05 marks)

- 32 The figure below shows a tank full of water. Study it carefully and use it to answer the questions that follow.



- (a) Calculate the base area of the tank. (03 marks)
- (b) Calculate the amount of water in litres that is in the tank. (02 marks)