



THE PRIME EXAMINATIONS 2023

PRIMARY SIX BEGINNING OF TERM I MATHEMATICS (Abridged Curriculum)

Time allocated 2 hours 30 minutes



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Name:

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- This paper has **two** sections: **A** and **B**. Sections **A** has **20** (40 Marks) questions and Section **B** has **12** questions. (60 Marks)
- Answer **ALL** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
- 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.
- No calculators** are allowed in the examination room.
- Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- Do not fill anything in the table indicated

"FOR EXAMINERS' USE ONLY"

PUBLISHERS OF:-

THE PRIME, SCHEMING FRAMEWORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES, REVISION BOOKS, PLE 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		

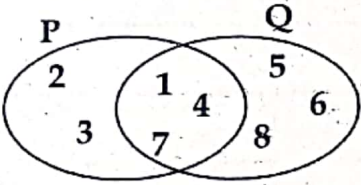
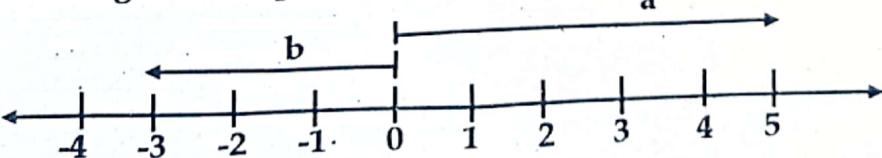
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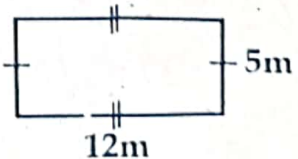
Consultant
Mathematics Department (PEC)

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Turn Over

Section A (40 Marks)

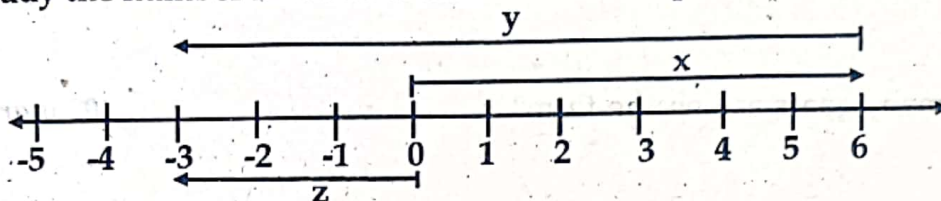
1	Work out: $\frac{7}{10} - \frac{5}{10}$	2	Write 12023 in words.
3	Write 46 in Roman Numerals.	4	Find the next number in the sequence. 4, 7, 12, 19, 28, _____
5	Use the Venn diagram below to find $n(P \cap Q)$. 	6	Find the product of 127 and 3.
7	Using a ruler and a protractor only, draw an angle of 60° in the space below.		
8	Solve: $3x + 1 = 10$	9	Expand 4309 using values.
10	What integers are represented by the arrows on the number line below? 		
	(i) a _____	(ii) b _____	

11	Change 34_{five} to base ten.	12	Round off 63197 to the nearest tens.
13	A pupil paid sh.6000 for 6 exercise books. How much would she pay for 4 books?	14	Masaso bought 12kg of rice. Express the quantity bought in grammes.
15	<p>The drawings below show cards with numbers written on them.</p> <div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">4</div> <div style="border: 1px solid black; padding: 2px 5px;">5</div> <div style="border: 1px solid black; padding: 2px 5px;">6</div> <div style="border: 1px solid black; padding: 2px 5px;">7</div> <div style="border: 1px solid black; padding: 2px 5px;">8</div> </div> <p>Find the probability of picking at random a card with an even number.</p>	16	Pupils of P.5 scored the following marks in their end of term exam; 40, 70, 50, 30, 60. Calculate the range of their marks.
17	Find the number of $\frac{1}{2}$ litre cups that can fill a 5 litre jerrycan of water.	18	Simplify: $\frac{2}{3} - \frac{1}{2}$
19	A lesson started at 8:30 am and ended at 9:10 am. How long did it take?	20	<p>Find the perimeter of the rectangle below.</p> 

(b) Work out the volume. (02 marks)

(c) Name the solid figure below. (01 mark)

24 Study the number line below and answer the questions that follow.



(a) What integers are represented by letters; (01mark each)

(i) x _____ (ii) y _____

(iii) z _____

(b) Write a mathematical sentence represented on the number line. (02marks)

25 Aguti obtained the following marks in Mid term III exams.

SUBJECT	MARKS
English	65%
Maths	85%
Science	50%
SST	70%
Computer	50%

(a) Calculate the: (02 marks)

(i) median mark

(ii) average mark (03 marks)

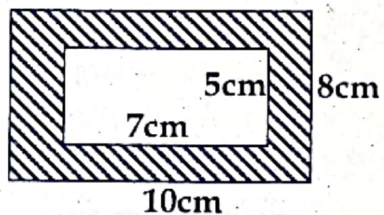
26 On Mr. Kanyankore's farm, there are 120 animals. If $\frac{5}{6}$ are cows and the rest are goats.

(a) What fraction of the animals are goats? (01 mark)

(b) How many cows are on the farm? (02 marks)

(c) How many goats are on the farm? (02 marks)

27 Study the figure below and use it to answer the questions.



(a) Find the area of the small rectangle. (02 marks)

(b) Find the area of the big rectangle. (02 marks)

(c) Find the area the shaded part. (01 mark)

28 (a) Given that $P = 3$ and $q = 4$, find the value of:
(i) $2p + q$ (02 marks)

(ii) pq (01 mark)

(b) Collect like terms and simplify: $3 \text{ pens} + 4 \text{ books} + 2 \text{ pens} - 3 \text{ books}$. (02 marks)

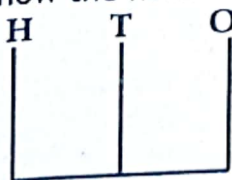
29 (a) Find the L.C.M of 12 and 18. (02 marks)

(b) Find the G.C.F of 12 and 18. (02 marks)

(c) Write down all prime numbers less than 10. (01 mark)

30 (a) Given the number 6804. Find the sum of the value of 6 and the place value of 0. (03 marks)

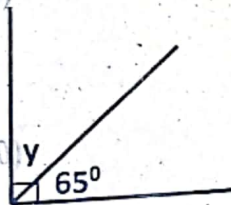
(b) Show the number 306 on the abacus below. (02 marks)



- 31 Using a ruler and a pair of compasses only, construct a square ABCD of sides 6cm. (04 marks)

- 32 Study the figures below and answer the questions. (03 marks)

(a) Find the value of y



- (b) Find the value of X . (03 marks)

