

prime THE PRIME EXAMINATIONS 2025
consult

P.7 BEGINNING OF TERM I
MATHEMATICS (New Curriculum)

Time allocated 2 hours 30 minutes



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Name:.....

Signature:.....

School:.....

District Name:.....

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections: A and B. Section A has 20 questions (40 Marks) 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

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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)

Organised by: PRIME EDUCATIONAL CONSULT @2025 Kampala

Turn Over

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Section A. (40 Marks)

1 Workout: $105 \div 5$ WARNING: Not to be reproduced electronically!!	2 Write 109 in Roman numerals.
3 Give that set $R = \{4, 6\}$, List down all the subsets of R.	4 Find the square of $\frac{5}{9}$.
5 What number has been expanded to give $(7 \times 10^3) + (5 \times 10^2) + (4 \times 10^0)$?	
6 Using a pair of compasses, construct the complement angle of 60°.	
7 Given that $Z = 4$, $Y = 2$ and $W = 5$, Find the value of $ZY - W$.	8 Find the next number in the sequence; $5, 9, 7, 11, 9, \underline{\hspace{2cm}}$ WARNING: Not to be reproduced electronically!!

A debate that took 48 minutes ended at 1:00pm. At what time did the debate start?

10

In Otiupe p/s, there were 600 pupils in term one. In term two, the number increased to 690 pupils. Calculate the percentage increase.

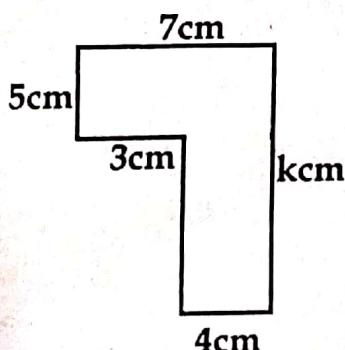
Find the greatest number that divides 36 and 48 without a remainder.

12

Work out: $0.42 - 2.1 + 3$

Solve: $(2d + 2) - (d + 4) = 2$

The area of the figure below is 59cm^2 . Find the value of k.



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<p>15</p> <p>Amuriat bought 12 mangoes at sh 1500 for every 3 mangoes. Find the total cost of all the mangoes.</p> <p><small>WARNING: Not to be reproduced electronically.</small></p>	<p>16</p> <p>The exchange rate for US\$1 = Ug 3,600. If a tourist entered Uganda with US\$700. Find the amount he got in Uganda shillings after exchange.</p>
<p>17</p> <p>Solve: $3 - 2m = 9$</p>	<p>18</p> <p>Find the value of t in the figure below.</p>
<p>19</p> <p>Convert 112_{three} to base ten.</p>	<p>20</p> <p>A worker's wage was sh 180,000 per month. If the worker's wage was risen by a third of his wage, find worker's new wage.</p>

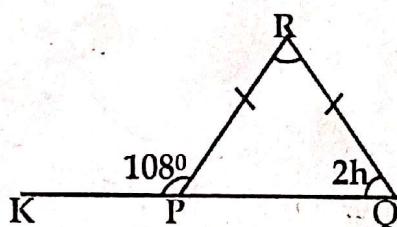
Section B. (60 Marks)

21 (a) Simplify: $0.75 - 0.15$ (03 marks)
 0.06

(b) Simplify: $\frac{1}{4}$ of $\frac{2}{5} + \frac{1}{3}$ (02 marks)

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22 In the figure below, PQR is a triangle and KPQ is a straight line. (02 marks)



(a) Find the value of h. (02 marks)

(b) Find the size of angle PRQ. (03 marks)

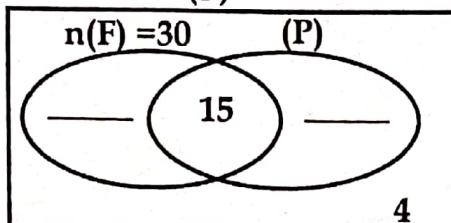
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23

In a class of 70 pupils, 30 drink Fanta(F), r drink Pepsicola (P) only, 15 drink both fanta and pepsicola. 4 drink none of these.

(a) Use the above information to complete the Venn diagram below. (02 marks)

$$n(\mathcal{E}) = 70$$



(b) Find the value of r. (02 marks)

(c) How many pupils drink one type of soda only? (01 mark)

24

The sum of three consecutive odd numbers is 105.

(a) Find the numbers. (03 marks)

(b) Express the middle as a product of its prime factors. (02 marks)

25 (a) Slove: $2(3m-5) - 3(1-m) = 14$. (03 marks)

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(b) Nankya is 3 times as old as her son. The sum of their ages is 48 years. Find Nankya's age. (02 marks)

26 The following marks were scored by pupils of P.6 in a Mathematic test.
50, 30, 70, 30, 40, 70, 40, 70, 40 and 40.
(a) How many pupils did the test? (01 mark)

(b) Find the modal mark. (02 marks)

(c) Find the mean mark. (02 marks)

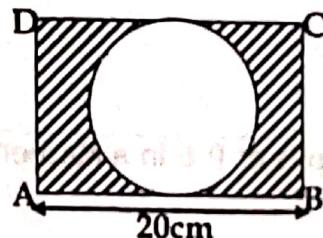
27 (a) Work out: $-4 - +7$ using a number line. (03 marks)

(b) Simplify: $3m - 6 - 4$

(02 marks)

28

The figure below shows a circle enclosed in a rectangle ABCD. The area of the rectangle is 280cm^2 .



(a) Find the width of the rectangle.

(02 marks)

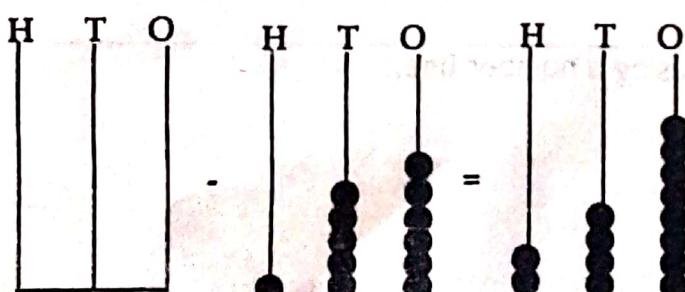
(b) Work out the area of the unshaded part.

(02 marks)

(c) Find the area of the shaded part.

(01 mark)

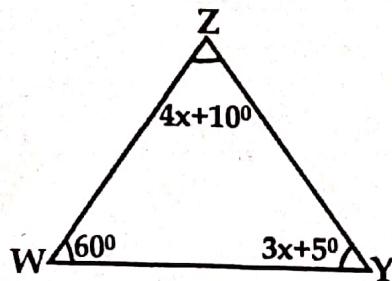
29 Study the abaci below. Use them to answer the questions below.



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- WARNING: Not to be reproduced electronically!:**
- (a) Complete the first abacus. (03 marks)
- (b) Write the difference of the two numbers in expanded form using powers of ten. (02 marks)

30 Study the triangle and use it to answer the questions that follow.



(a) Find the value of x. (03 marks)

(b) Find the size of angle WZY. (02 marks)

31 Namajja rode a bicycle from town P to town Q at a speed of 10km/h for 3 hours. She then left town Q for town R at a speed of 20km/h. Town R is 40km from town Q.

(a) How far is town Q from town P? (02 marks)

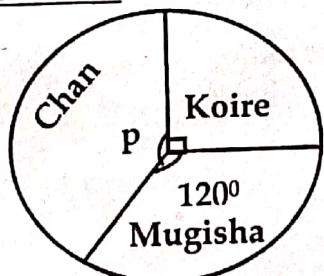
(03 marks)

(b) Calculate the average speed for the whole journey.

32

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The piechart below shows how three people contributed for the people of Kiteezi during the land slide. Study it carefully and use to answer the questions below.



(02 marks)

(a) Find the value of p.

(b) If Chandha contributed sh 450,000, find the amount of money the three people contributed altogether. (02 marks)

(c) Express Koire's contribution as a fraction. (01 mark)

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