



THE PRIME EXAMINATIONS 2023

P.7 PRE - MOCK

MATHEMATICS

Time allowed 2 hours 15 minutes

INDEX NO:

Random No.					Personal No.		



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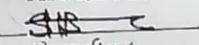
District Name:.....

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of **two** sections: **A** and **B**.
Sections **A** has **20** questions (**40 Marks**) Section **B** has **12** questions (**60 Marks**)
2. Answer **ALL** questions. **All** answers in both sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written using **blue or black ball point pen or ink**. Any work done in pencil other than graphs and diagrams will **not be marked**.
4. Unnecessary **changes** of work may lead to loss of **marks**.
5. No calculators are allowed in the examination room.
6. Do **not** fill anything in the table indicated "**FOR EXAMINERS' USE ONLY**", and the boxes inside the question.

FOR EXAMINERS' USE ONLY		
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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Turn Over

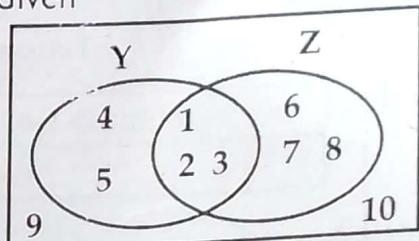
Section A (40 Marks)

1 Workout:
$$\begin{array}{r} 3 \ 5 \ 5 \\ + \ 4 \ 3 \\ \hline \end{array}$$

2 Write 146 in Roman numerals.

3 Workout:
$$\begin{array}{r} 3 \ 0 \ 5 \\ \times \ 4 \\ \hline \end{array}$$

4 Given

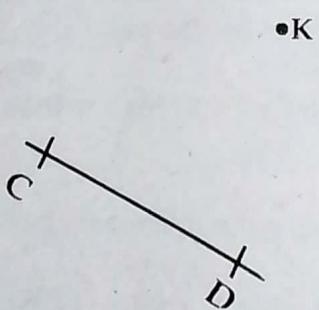


List the members of set Z'

5 Find the next missing factors of 24.
 $F_{24} = \{1, 2, 3, \underline{\quad}, 6, \underline{\quad}, 12, 24\}$

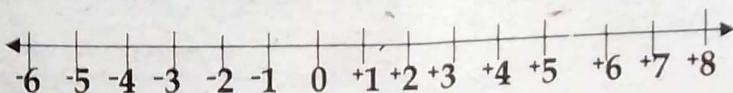
6 Write the number whose standard form is 6.325×10^2

7 Using a ruler and a pair of compasses only, drop a perpendicular from K onto line segment CD.



8

Workout $-4 + 6$ using the number line below..



9

$$\text{Solve } \frac{2m}{3} + 4 = 6$$

10

A packet of powdered soap weighs 500g. Twenty four such packets are packed in a box. What is the total weight of soap in the box in kilogrammes?

[]

11

Hoes were numbered from 1 to 10 then put in a store. Find the probability of picking a hoe numbered with a triangular number.

12

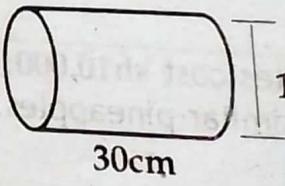
$$\begin{array}{r} 1201 \text{ three} \\ - 122 \text{ three} \\ \hline \end{array}$$

13

4 pineapples cost sh10,000. Find the cost of 9 similar pineapples.

14

Round off 3.576 to the nearest hundredths

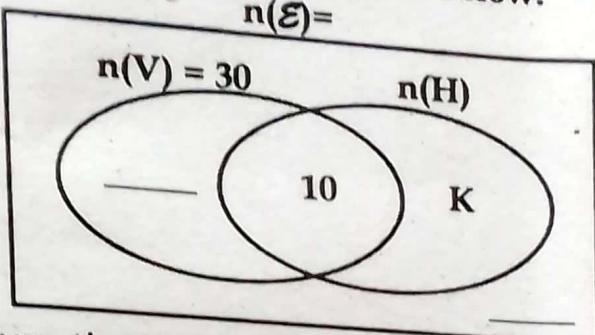
15	<p>A father's age is 36 years. The average age of the father and his four children is 15 years. Find the total age of the children.</p>	16 Find the value of y in the figure below.
17	<p>Namakula deposited sh240,000 in a bank which offers an interest rate of 4% p.a. Calculate the amount she got after a period of 9 months.</p>	18 Kamusi rode a distance of 18km in 45 minutes. Find his speed in kilometres per hour.
19.	<p>Given that $a = 12$, $b = 5$, find the value of $\sqrt{ab} + 4$</p>	20 Calculate the circumference of the circular end of the cylinder below (Use $\pi = 3.14$) 

21

Section B (60 Marks)
 In the Venn diagram, 10 players play both volleyball (V) and handball (H), 30 players play volleyball, K players play handball only while $2k+4$ play none of the games.

(a) Complete the Venn diagram below.

(02 marks)



(b) Given that the number of players who play volleyball only is equal to the number of players who play none of the two games. Find the value of K.

(02marks)

(c) How many players play handball?

(01 marks)

22

A trader bought 80 packets of 200g of powdered soap at sh300 each. He repacked the soap into 1kg packet and sold each packet at sh1750. Calculate the percentage profit the trader made.

(05marks)

23 At a wedding attended by 360 people, 0.45 were women, 0.3 were men and the rest were children. How many more adults than children were there? (05 marks)

24 A motorist left town A at 2:30pm moving at a speed of 60km/hr for $1\frac{1}{2}$ hours to town B. He rested at town B for half an hour and then returned to town A in an hour.

(a) How far is town B from town A?

(02 marks)

(b) At what time did the motorist reach town A? (01 mark)

(c) Calculate the average speed for the whole journey. (02 marks)

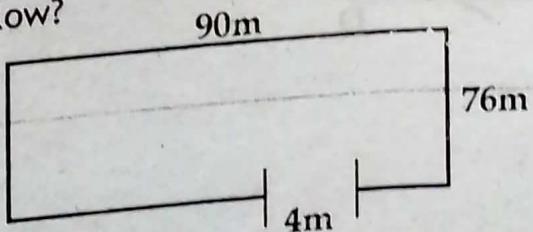
25 The sum of three consecutive numbers is 87. If the first number is two less than the second number and the third number is two more than the second number, find the numbers. (04 marks)

(b) What type of numbers are they? (01marks)

26 Using a pair of compass and a ruler only, construct a triangle XZY in which $XY = 6.5\text{cm}$, $\angle YXZ = 60^\circ$, $\angle XYZ = 45^\circ$. (04marks)

(b) Measure $\angle XYZ$ (01mark)

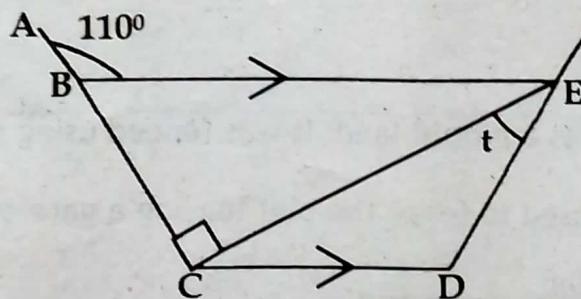
27 The figure below represents a plot of land. It was fenced using poles at an interval of 4 metres.
(a) How many poles were used to fence the plot leaving a gate of 4 metres as shown below? (03 marks)



(b) If each pole costs sh.4000. Find the total amount of money which was spent on poles. (02 marks)

28 A water melon costs four times the cost of a mango and the cost of a pawpaw is sh.2500 less than the cost of a watermelon. If the cost of two mangoes is sh.500 less than the cost of a pineapple. Find the cost of a water melon. (05 marks)

29 The figure below, BE is parallel to CD, $\angle BED = 70^\circ$. Study the figure and answer the questions below.



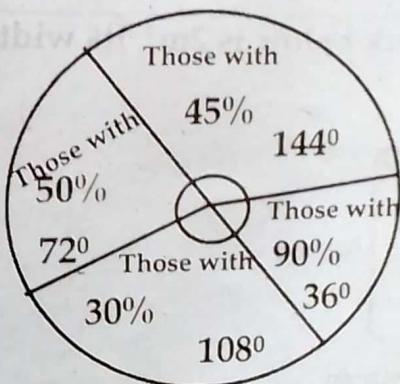
(a) Find size of angle t

(03 marks)

(b) Find the size of angle CDE

(02 marks)

- 30 The pie chart below shows the marks obtained by 60 pupils of a certain P.7 class. Study it carefully and answer the questions that follow.



(a) How many people scored 50%?

(b) How many more pupils scored 48% than 30%?

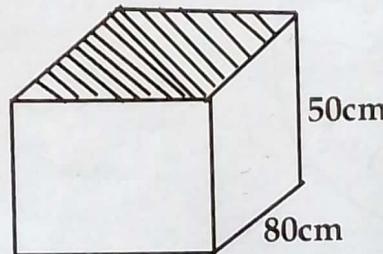
(05 marks)

- 31 Three numbers were reduced using their GCF and gave a ratio of 2:3:5 respectively. If their GCF was 12, find;
- (a) the numbers

(b) Find their LCM

(05 marks)

- 32 The volume of a rectangular tank below is $2m^3$. Its width is 80cm and height 50cm.



(a) Find its height in metres.

(b) Work the area of the shaded part in square centimetres.

(05 marks)