



# THE PRIME EXAMINATIONS 2022

## P.7 PRE - PLE TRIAL SET I

### MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

INDEX NO:

Random No.

Personal No.

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#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- Do not write your **school** or **district** name anywhere on this paper.
- This paper has **two** sections: **A** and **B** Section **A** has **20** questions and section **B** has **12** questions. The paper has **9 printed pages**.
- 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 graphs and diagrams will **not** be marked.
- No calculators** are allowed in the examination room.
- Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
- Do **not** fill anything in the table indicated "**For Examiners' use only**", and those boxes inside the question paper.

#### 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		

*[Signature]*  
**APPROVED:**  
 Consultant  
 Mathematics Department (PEC)

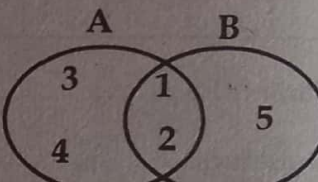
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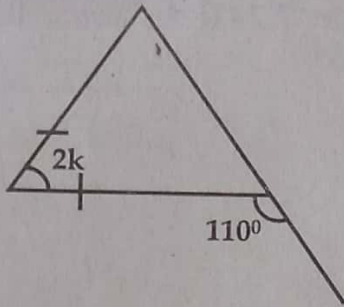
**Section A (40 Marks)**

<p>1 Workout: 486  <math display="block">\begin{array}{r} 486 \\ -312 \\ \hline \\ \hline \end{array}</math></p>	<p>2 Write "forty thousand twenty seven" in figures.</p>
<p>3 List down all composite numbers less than 10.</p>	<p>4 Given:</p> <div style="text-align: center;">  </div> <p>list down all the members in <math>(A \cap B)</math></p>
<p>5 Find the number written in standard form to give <math>6.472 \times 10^4</math>.</p>	<p>6 A music show on KBS television started at 11:30am and lasted for 3 hours. At what time did the show end?</p>
<p>7 Using a pair of compasses, a ruler and a pencil only, construct an angle of <math>30^\circ</math></p>	

8	Given that $a=4$ , $b=^{-}2$ and $c=2$ , find the value of $a^c \div a^b$ .	9	Change 7.24 litres into millilitres.
10	The probability of picking a red pen from a box which has both blue and red pens at random is $\frac{5}{9}$ . Find the number of pens in the box if there are 8 blue pens.	11	Work out: $2 - 5 = \underline{\hspace{2cm}}$ finite 7
12	Two bells ring at intervals given a ratio of 3:4 respectively. If their GCF is 10minutes. Find the interval at which the two bells ring.	13	Workout: $140 \div 2.8$
14	Kamani bought a bag at sh.48000 and later sold it making a profit of $\frac{1}{6}$ of the buying price. Find how much he sold the bag.		



15 Find the value of K in the degrees in the figure below.



16 In a certain P.7 class,  $\frac{2}{5}$  of the pupils are boys and the rest are girls. If there are 12 more girls than boys, find the total number of pupils in the class.

17 Solve  $\frac{60}{K} - 7 = 3$

18 The mean of  $2x$ , 7, 8, 5 and  $3x$  is 6. Find the value of  $x$ .

19 A car covered a distance of 660cm in three revolutions. Calculate the diameter of the car wheel.  
(Take  $\pi = \frac{22}{7}$ )

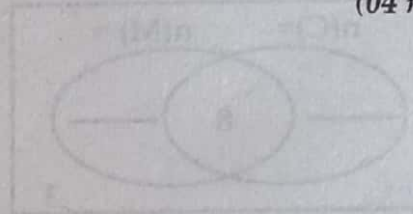
20 A bus covered a distance of 195km in  $\frac{3}{4}$  hours. Calculate the speed at which the bus was moving.

23 Adonayi went to a supermarket and bought the following items.

- 3 loaves of bread at sh.4500 per loaf.
- $1\frac{1}{2}$  litres of cooking oil at sh.9000 per litre.
- 3 bars of soap at sh. 7500 per bar.
- 2kg of rice at sh.8000.

(a) Find Adonayi's total expenditure.

(04 marks)



(b) If she used sh.2500 for transport, how much did she have at the beginning?

(01 marks)

24 Kapiito deposited sh. 499,000 in a bank. The money yielded an interest of sh.15000 after a period of 9 months.

(a) Calculate the interest rate.

(03 marks)

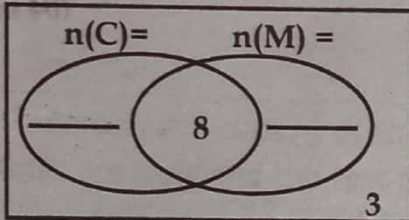
(b) How much money did Kapiito get after 9 months?

(02 marks)

Section B (60 Marks)

21 At a birthday party,  $(3x + 3)$  guests were served with chicken (C) only,  $(x + 5)$  guests were served with meat (M) only, 8 guests were served with both chicken and meat while 3 guests were served with none of the two dishes. If the number of guests served with chicken only was twice as much as those served with meat only,

(a) Complete the Venn diagram below. (02 marks)



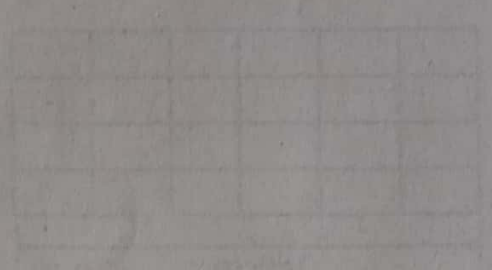
(b) Find the value of  $x$ . (02 marks)

(c) How many guests attended the party? (02 marks)

22 (a) Change:  $11100_{\text{two}}$  to base ten. (02 marks)

(b) Workout:  $132_{\text{five}} \times 22_{\text{five}}$ . (02 marks)

25 (a) Using a pair of compasses, a ruler and a pencil only, construct a triangle PQR where  $PQ = 6.4\text{cm}$ , angle  $RPQ = 60^\circ$  and angle  $PQR = 45^\circ$ . (04 marks)

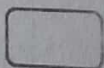


(b) Measure the length QR. (01 marks)

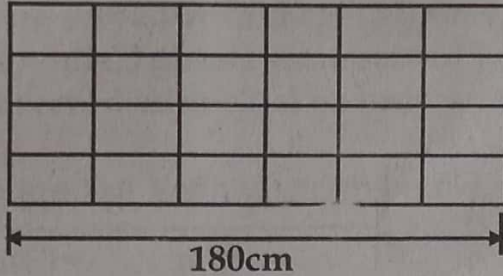
26 A bus left town K at 8:40pm for town L and arrived at 2:00am.  
(a) Convert the departure time of the bus from town K into 24hour clock. (01 marks)

(b) How long did the journey take? (02 marks)

(c) If the bus was moving at a steady speed of  $90\text{km/hr}$ , how far is town K from L? (02 marks)



- 27 The figure below shows square tiles laid in a rectangular room of length 180cm as shown in the diagram. Study the diagram and answer the questions that follow.



- (a) Find the width of the room. (02 marks)
- (b) Calculate the area of one tile (02 marks)
- (c) Workout the distance around the room. (02 marks)
- 28 In a class, there are 20% more boys than girls. The class has 48 boys.
- (a) What percentage are girls? (02 marks)

- (b) Calculate the total number of pupils in the class. (02 marks)



29 The interior angle of a regular polygon is  $150^\circ$

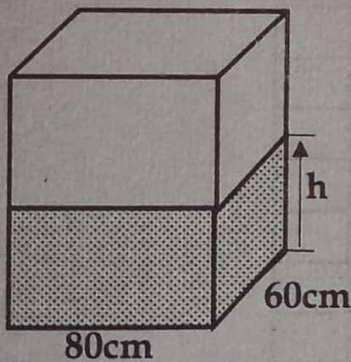
(a) Find the size of each exterior angle.

(02 marks)

(b) Calculate the number of sides of the polygon.

(02 marks)

30 The rectangular tank contains 480 litres of juice. Study it carefully and use it to answer the questions that follow.



(a) Find the value of  $h$ .

(03 marks)

(b) If the juice was sold in 20 litre jerrycans, find the number of jerrycans which were obtained from the juice.

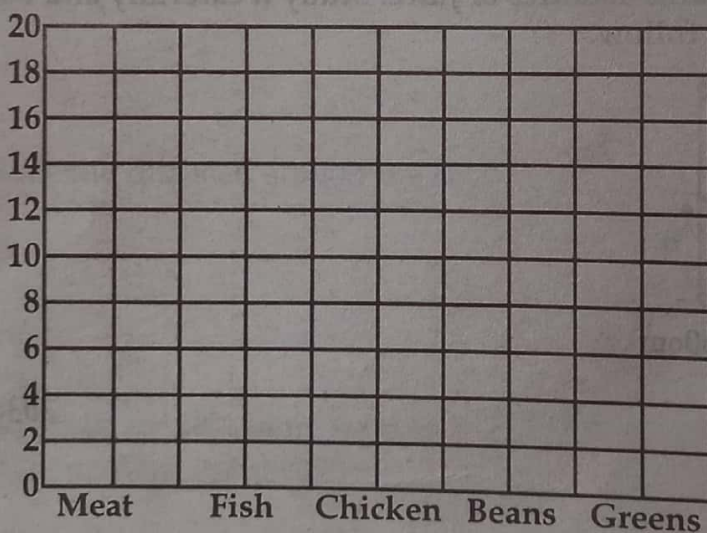
(02 marks)

- 31 A dress costs three times as much as a shirt. A skirt costs sh.5000 less than a shirt. If the cost of a dress is twice as much as the cost of a shirt and a skirt, find the cost of a dress. (04 marks)

- 32 The table below shows the types of dishes P.7 pupils of a certain school liked.

Dishes	meat	fish	chicken	beans	greens
No of pupils	12	16	20	10	18

- (a) Represent the above information on a line graph below. (04 marks)



- (b) How many pupils are in the P.7 class of that school? (01 marks)



**Revision Tip.**  
Always read the questions given twice before you start on answering them.