



THE PRIME EXAMINATIONS 2022

P.7 PRE - PLE TRIAL SET V MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

INDEX NO:

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: A and B Section A has 20 questions and section B has 12 questions.
3. Answer **all** questions. All the working for both sections A and B must be shown in the spaces provided.
4. 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.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. 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		

APPROVED:
Consultant

Mathematics Department (PEC)

PUBLISHERS OF:

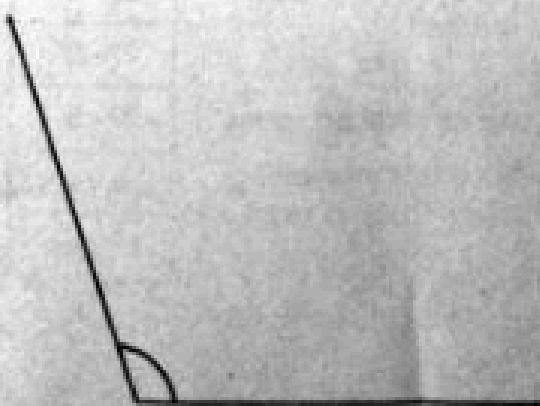
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Kampala

Turn Over

Section A (40 Marks)

<p>1 Workout: $\begin{array}{r} 317 \\ + 20 \\ \hline \end{array}$</p>	<p>2 Write "Ninety six thousand twelve."</p>
<p>3 Find the next number in the sequence. 4, 9, 7, 12, 10, _____, _____</p>	<p>4 Given that set $R = \{9, 7, 4\}$, list down all the proper subsets which can be obtained from set R.</p>
<p>5. Write the number expanded to give $(8 \times 10^3) + (7 \times 10^1)$</p> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 20px auto;"></div>	<p>6 A staff meeting which started at 9:40am lasted for $3\frac{1}{2}$ hrs. At what time did it end?</p>
<p>7 Using a protractor, measure the angle below.</p> <div style="text-align: center; margin-top: 20px;">  </div>	

- | | | | |
|----|---|----|--|
| 8 | Given that $a = 4$, $b = 6$. Find the value of $\frac{ab}{a+b}$ | 9 | In a certain village, 24kg of sugar were shared to pregnant women equally during Covid lockdown. If each woman received 750g, how many women received the sugar? |
| 10 | Arua Hill FC is to play with KCC FC on Saturday. Find the probability that KCC FC will win the match. | 11 | Today is Wednesday. What day of the week will it be 12 days after? |
| 12 | Find the least number of sweets when divided by 12 girls or 16 boys leaves no remainder. | 13 | Work out $(0.8 + 0.4) \div 0.03$ |
| 14 | By selling a radio at sh.72,000, a trader realised a profit of 20%. Calculate the original cost of the radio. | | |

- 15 Find the value of y in degrees in the diagram below.



- 16 In a class, the ratio of boys to girls is 4:5. If there are 24 boys, find the total number of pupils in the class.

- 17 Solve: $7 - \frac{2y}{5} = 3$

- 18 Find the mean of $\frac{1}{6}$, $\frac{1}{3}$ and $\frac{1}{4}$

- 19 The diameter of a bicycle wheel is 63cm. Calculate the distance it covers in 10 complete revolutions.
(Take $\pi = \frac{22}{7}$)

- 20 A cyclist moving at a speed of 72km/hr took 90 minutes to cover a certain journey. How long was the journey?

Section B (60 Marks)

- 21 In a certain P.7 class, 40 pupils enjoy Football (F), 15 pupils enjoy Netball (N) only, h pupils enjoy both Football and Netball while 4 pupils enjoy none of the two games.

(a) Use the given information to complete the Venn diagram

(2marks)



(b) If the pupils who don't enjoy Netball at all are 28 pupils, find the value of h . (2marks)

(c) Calculate the total number of pupils in the class. (1mark)

22 Work out $43_{\text{five}} + 24_{\text{five}}$ and give your answer in binary base. (5marks)

23 The list below shows prices of items in a certain shop.

- $2\frac{1}{2}$ litres of milk at sh.5500
- 250g of tea leaves at sh.3000 per kg.
- 1 loaf of bread at sh.4500
- 4kg of sugar at sh.3200 per kg.

(a) How much will 4 litres of milk cost? (2marks)

(b) Calculate the total expenditure on the items above. (4marks)

- 24 Mr. Katebe deposited sh. 800,000 in a bank which offers an interest rate of 5% p.a. Find how long the money stayed in the bank if it amounted to sh. 820,000. (4marks)

- 25 (a) Using a pair of compasses, a ruler and a pencil only, construct a triangle KLM where $KL = KM = 6.5\text{cm}$ and angle $MKL = 120^\circ$. (4marks)

(b) Measure length LM.

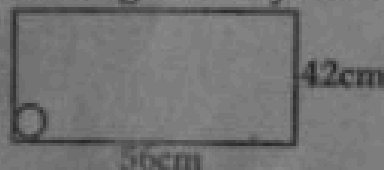
(1mark)

- 26 The time table below shows the journey of a taxi from town A to town E. Study it carefully and use it to answer the questions that follow.

Town	Arrival time	Departure time
A		8:30 am
B	9:45 am	10:00 am
C	11:20 am	11:25 am
D	1:30 pm	1:40 pm
E	3:00 pm	1:40 pm

- (a) Express the arrival time of the taxi at town E in 24-hour clock. (1 mark)
- (b) How long did the taxi take to travel from town A to town E? (2 marks)
- (c) The distance from town A to town E is 260 km. Calculate the average speed of the taxi for the whole journey. (2 marks)

- 27 A welder cut circular plates of diameter 14 cm from a rectangular sheet of metal measuring 56 cm by 42 cm shown below.



- (a) Find the number of circular plates he cut from the metal sheet. (2 marks)

(b) Calculate the area of the pieces of metal that remained.

(3marks)

28 In a school, there are $\frac{1}{7}$ more girls than boys. The school has 192 girls.

(a) Find the fraction of girls in the school.

(2marks)

(b) Calculate the total number of pupils in the school.

(3marks)

29 The interior angle of a regular polygon is twice its exterior angle.

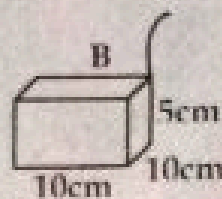
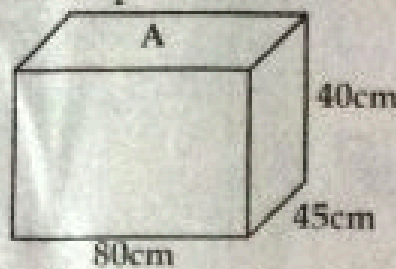
(a) Find the size of the exterior angle.

(2marks)

(b) Calculate the interior angle sum of the polygon.

(3marks)

- 30 A rectangular tank A measuring 80cm by 50cm by 60cm was filled with passion fruit juice and sold using container B measuring 10cm by 10cm by 5cm at sh.1000 per container as shown below.



(a) Calculate in litres the juice in tank.

(2marks)

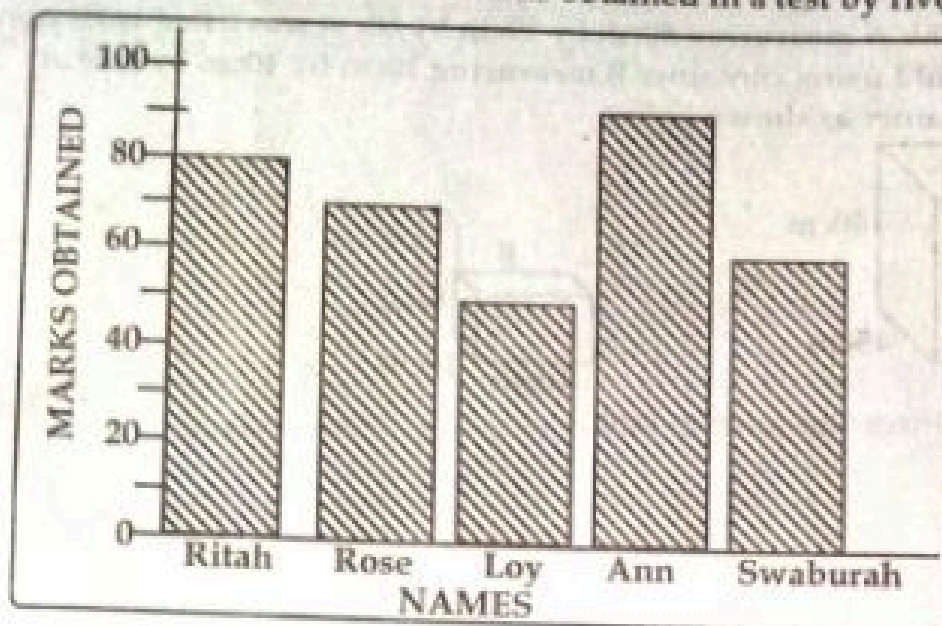
(b) How much money did the seller get if all the juice was sold?

(4marks)

- 31 On a farm, there are 8 more cows than goats. The number of sheep is 6 less the number of goats. The total number of goats and sheep is 2 more than the cows. Find the number of cows on the farm.

(4marks)

- 32 The graph below shows the marks obtained in a test by five girls.



- (a) Express Ritah's marks as a fraction. (1mark)
- (b) Which child scored 50 marks? (1mark)
- (c) What mark did the best child score? (1mark)
- (d) Calculate the average score in the test. (2mark)



Hidden Tip For Excellence in Mathematics.

Look over the previous Examination Papers to identify patterns in questions.
You can see how general or specific questions are likely to be.