



THE PRIME EXAMINATIONS 2022

P.7 PRE – PLE TRIAL SET V

MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

INDEX NO:

Random No.

Personal No.

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Candidate's Name:

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School Random No.

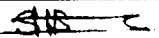
District ID:

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, P.I.C.

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Section A (40 Marks)

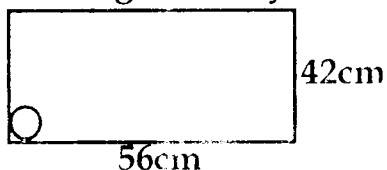
1	Workout: $\begin{array}{r} 317 \\ + 20 \\ \hline \end{array}$	2	Write "Ninety six thousand twelve."
3	Find the next number in the sequence. 4, 9, 7, 12, 10, _____, _____	4	Given that set $R = \{9, 7, 4\}$, list down all the proper subsets which can be obtained from set R.
5.	Write the number expanded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

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

- 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. (2marks)

(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)

- 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)

(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)

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

(3marks)

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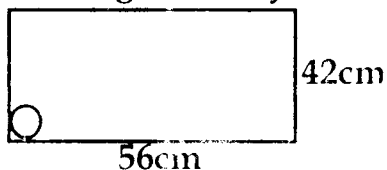
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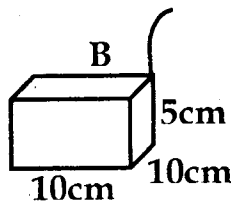
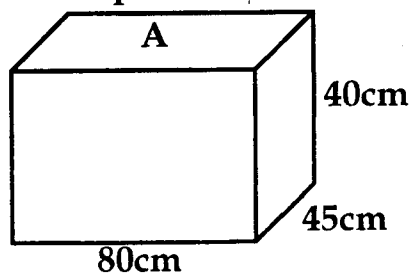
(2marks)

(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?

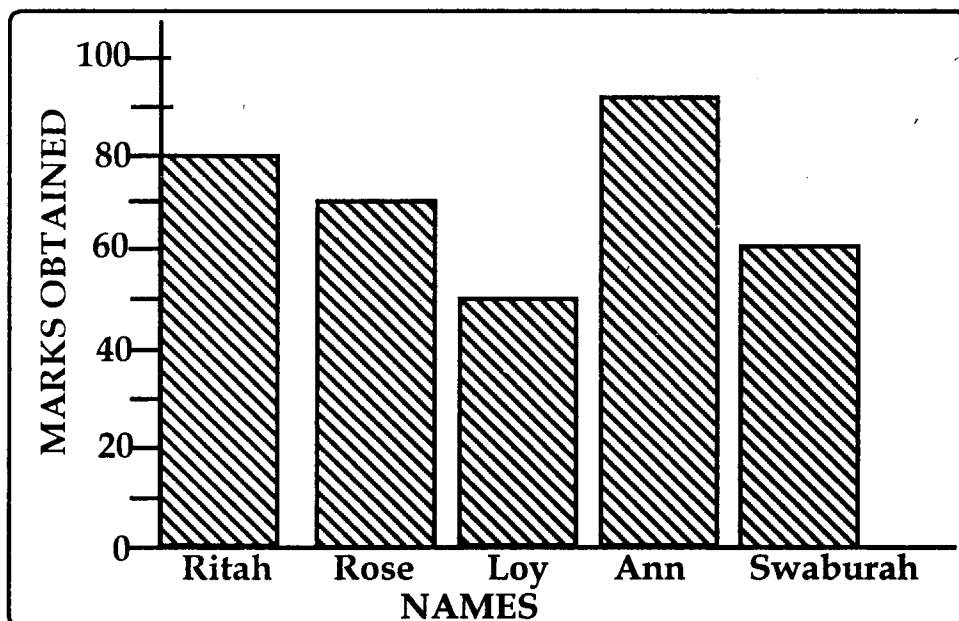
(4marks)

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.