



THE PRIME EXAMINATIONS 2024

P.7 SPECIAL EXAMINATIONS

MATHEMATICS

Time allowed 2 hours 30 minutes

PRIME CODE

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. The paper has **9 printed pages**.
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:

[Signature]
Consultant

Mathematics Department (PEC)

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Turn Over

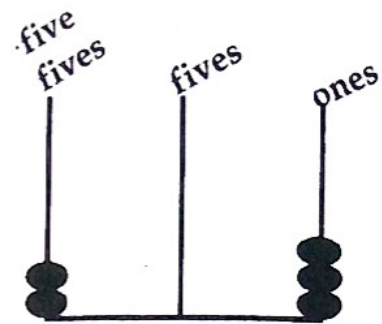
1

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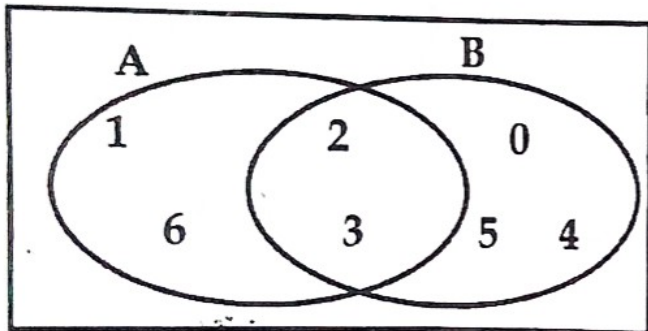
Workout: 42 $\times 3$

2

What base five numeral is represented on the abacus below?



3

Study the Venn diagram below and find $n(A \cup B)$ 

4

Arrange the integers $-7, 4, 0, -3$ and 6 in descending order.

5

A seminar for the born again faith started on Saturday and took 25 days. Find the day of the week it ended.

6

Change $\frac{3}{4}$ litres to millilitres.

7.


Work out: $13^2 - 12^2 \times 8^0$


8

An examination that took $2\frac{3}{4}$ hours ended at 1:05 pm. At what time did it begin?

Kamoga had a bundle of fifty thousand shilling notes numbered consecutively from DJ 9155836 to DJ 9155885. Find the amount of money Kamoga had.

12

Given that  = 5 mangoes and

 = 5 apples. Find the total number of fruits represented below.

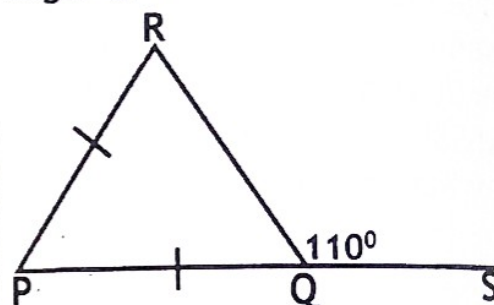


Show whether the number **675** is exactly divisible or not divisible by **9**

Using a ruler and a pair of compasses only, construct an angle of 75°

- 17 A trader sold a watch at sh.26400 and made a profit of 10%. Find the cost price of the watch.

- 18 In the diagram below, find the size of angle QPR



- 19 A minute hand of a clock measures 14cm. What distance does it cover in 2 hours. ($\pi = \frac{22}{7}$)

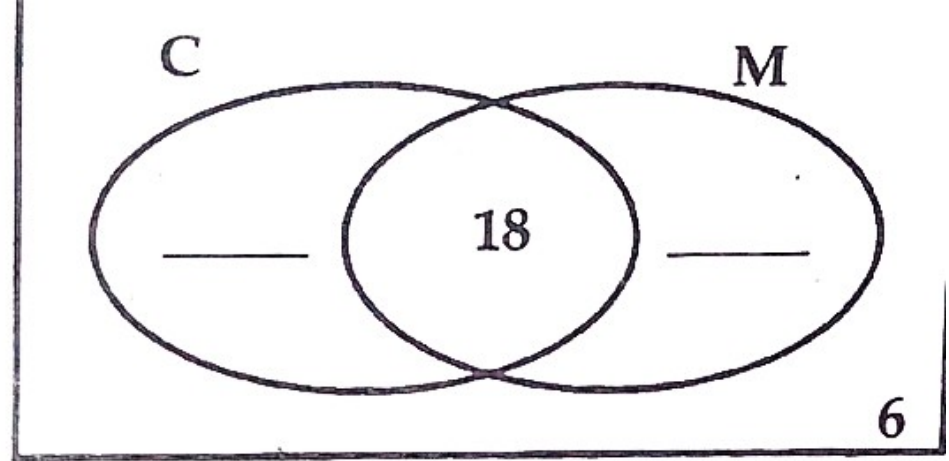
- 20 Use $>$, $<$ or $=$ to complete the statement below.

$$\frac{5}{6} \quad \text{---} \quad \frac{3}{4}$$

Section B (60 Marks)

- 21 Simplify:
(a) $(\frac{1}{3} + \frac{1}{3}) \div 1\frac{1}{4}$

(03 marks)



(b) How many guests ate meat only?

- 23 In a certain school, pupils are divided into Luwangula house, 240 for Muteesa house. Each house then groups pupils with equal numbers. (a) Find the largest number of pupils in each group.

(b) How many groups were formed by Muteesa house?

(02 marks)

Kiplimo covered 800 metres in 96 seconds. Calculate his speed in km/h.

(04 marks)

The interior angle of a regular polygon is 36° more than the exterior angle.
(a) How many sides has the polygon?

(02 marks)

(b) Calculate its interior angle sum.

(03 marks)

27 Samadu is half his father's age. Eleven years ago, their total age was 44 years.

(a) How old is Samadu now?

(b) How old was the father eleven years ago?

The table below shows the buying and the selling rates in a bank.

Currency	Buying	Selling
USD dollar (\$) 1	Ush 3500	sh 3700
Euro (€) 1	Ush 4020	sh 4300
GBP (£) 1	Ush 4500	Sh 4700

(02 marks)

(a) Convert US\$ 860 to Uganda shillings

(b) Convert GBP 740 to US\$.

(03 marks)

Two maids Imelda and Amina are employed to clean a house. Amina takes 6 hours to clean the house while Imelda takes 2 hours to do the same work.

(a) Find the time the two maids will take to do the same work if they work together.

(03 marks)

(b) If each maid is paid sh.5000 per hour, how much money will be spent on the two maids.

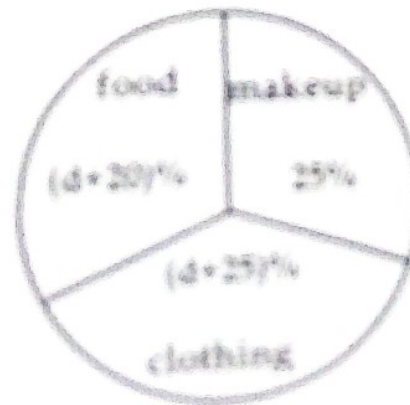
(02 marks)

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(b) Use the information container was sold at sh.200 each. Find the total amount that would be collected.

(02 marks)

The pie chart below shows how a woman spends her monthly salary.



amount of ...
Using a ruler and a pair of compasses only, construct a kite $WXYZ$ such that diagonal $WY = 5\text{cm}$, diagonal XZ bisects WY at point p . $PX = 3\text{cm}$ and $PZ = 6\text{cm}$ (05 marks)

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