



DIVINE EDUCATION CENTRE

P.7 END OF TERM 1 EXAMINATION-2024

MATHEMATICS

Time allowed: 2hours 30 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID 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**. This paper has **12 pages** printed altogether.
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 be easily read may lead to **loss of marks**.
7. Do not fill anything in the table indicated **"For Examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S No.
1- 5		
6 -10		
11- 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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Turn Over

SECTION A (40 MARKS)

Answer **all** questions in this section.

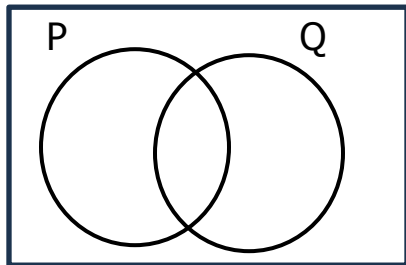
Question **1** to **20** carry two marks each

1- Add: $\frac{1}{4}$ to $\frac{3}{4}$

2- Write "Twelve thousand, twelve" in figures.

3- Solve: $m + 3 = 2$ (finite 5)

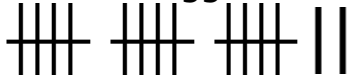
4- In the venn diagram below, shade the region of $(P \cap Q)$ complement.



5- The value of a certain digit h in $3h1_{\text{five}}$ is 10. Find the value of h .



6- James sold eggs on a certain day as shown by the tallies below.



How many eggs did he sell?

7- Annet bought a five litre jerrycan of juice which she served to her visitors. Each visitor received a half litre glass full of juice.

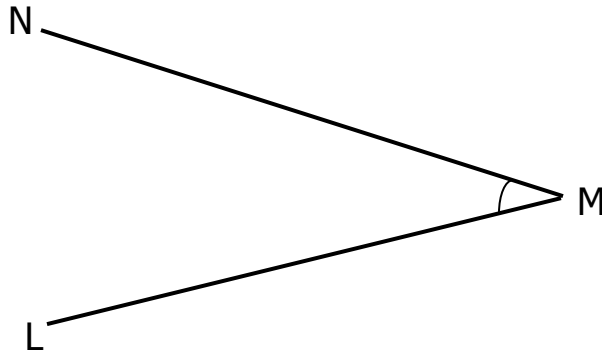
How many visitors did she receive on that day?

8- Write 0.00425 in standard form

9- Find the next two numbers in the sequence;

1, 3, 6, 10, _____, _____

10- Using a protractor, measure angle LMN below.



11- Given that $3y$ and 60° are supplementary angles, find the value of y

12- A football match will start in 4 hours from now. If it is 6:20 p.m, at what time in 24 hour clock system will the match start?

13- Simplify: $4a - b + a - 3b$

14- Leta had a bundle of five thousand shilling notes numbered consecutively from CH2632656 to CH2632755. How much money did she have altogether?

15- Convert 18km/hr to metres per second.



16- Find the next two equivalent fractions of $\frac{2}{5}$

17- The mean of k, 3, 5 and 2 is 3. Find the value of k.

18- A teacher's salary of sh.320,000 was increased by 10%. Calculate the new teacher's salary.

19- Find the square of 16.

20- The base area of a rectangular tank is 40 square centimetres, find its volume if its height is 50cm.

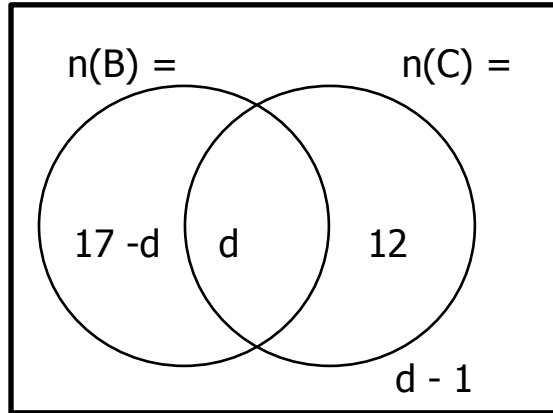


SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in the brackets

- 21- The venn diagram below represents the number of guests who eat beef (B) and chicken (C). Study and use it to answer the questions that follow.



- (a) If the guests who eat beef only is the same as those who eat chicken only, find the value of d . **(02marks)**

- (b) How many guests attended the party?

(02marks)

- (c) Find the probability of selecting a guest at random who does not eat chicken. **(02marks)**

22- (a) Given that $24_y = 31_{\text{five}}$. Find the value of y

(03marks)

(b) Workout:

$$\begin{array}{r} 3 \quad 2 \quad 3_{\text{five}} \\ - 1 \quad 1 \quad 4_{\text{five}} \\ \hline \end{array}$$

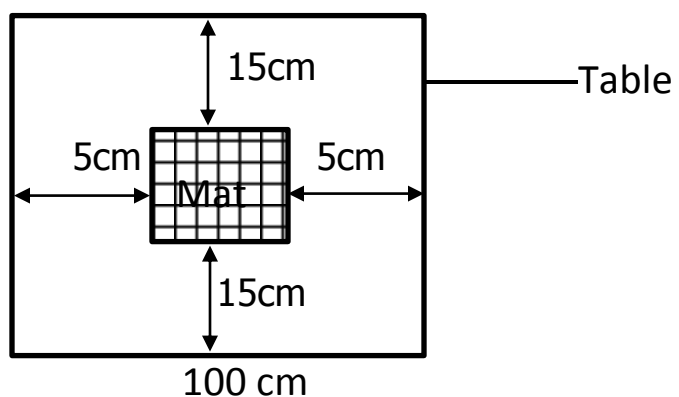
(02marks)



23- The sum of three consecutive odd numbers is 18. If the middle number is y . Find the range of the numbers.

(04marks)

24- A table surface of width 100cm was covered by a square mat. 15cm and 5cm of the table were left on either sides as shown in the figure below.



(a) Find the length of the table.

(03marks)

(b) Find the area of the table not covered by the mat.

(03marks)



25- At a certain school, bells for upper section and lower section were rung at interval of 40 minutes and 30 minutes respectively.

(a) After how many hours were bells rung together again? **(03marks)**

(b) If they were rung together at 11:20a.m, at what time will they ring together in the 12 hour clock system? **(02marks)**

26- Onyango got a loan from a bank at a rate of 10% per annum. The loan yielded a simple interest of sh. 15,000 after a certain period. If Onyango paid an amount of sh. 315,000 to the bank .

(a) How much was the loan? **(02marks)**

(b) For how long was the loan? **(03marks)**



27- Given that $a = 3$, $b = a$ and $c = b + 4$

Find the value of:

(a) $ab + c$

(02marks)

(b) $3c^2 + a$

(02marks)

28- The table below shows the marks scored by different pupils in a P.7 entry interview.

Marks scored	40	80	60	90
Number of pupils	3	2	4	1

(a) How many pupils did the interview?

(01mark)

(b) Calculate the average mark

(03marks)

(c) If the average mark was the pass mark, how many pupils passed the interview?

(01mark)

29- A business man bought 3 boxes of soap at sh. 170,000 each box. Each box had 30 bars of soap. He later sold all the soap at sh. 6,500 each bar of soap. How much profit did he make?

(05marks)

30- Jane, Gift and Mercy shared a certain amount of money in the ratio of 3:5: 7 respectively. If Mercy got sh. 60,000 more than Gift,

(a) How much money did they share altogether?

(03marks)

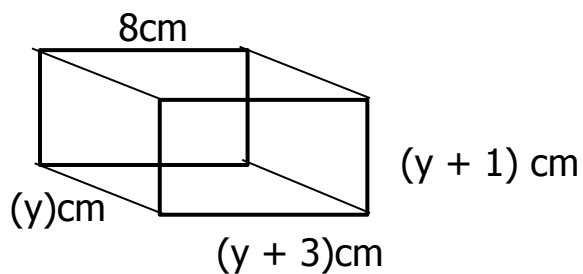
(b) How much money did Jane get?

(02marks)



- 31- Using a pair of compasses, ruler and pencil only, construct a square in a circle of radius 4cm. **(05marks)**

- 32- Study the figure below carefully and use it to answer the questions that follow



- (a) Find the height of the cuboid. **(2 mrks)**

- (b) If the cuboid above was made out of a wire, find the total length of the wire used. **(03marks)**

END

