

काठमाडौं महानगरपालिका

द्वितीय त्रैमासिक परीक्षा-२०८१

गणित (Mathematics)

कक्षा : १०

समय : ३ घण्टा

पूर्णाङ्क : ७५

सबै प्रश्न अनिवार्य छन् । (Attempt all questions)

१. कक्षा १० मा अध्ययनरत विद्यार्थीलाई साहित्य र संगीत कुन मनपर्छ भनी गरिएको एक सर्वेक्षणमा ४०% विद्यार्थीहरूले साहित्य मन पराएको, ६५% ले संगीत मनपराएको र १०% ले ती दुवै मध्ये कुनै पनि मन नपराएको पाइयो भने

In a survey conducted among the students studying in grade 10 at to explore whichever School among literature and music they like, it was found that 40% of them liked literature, 65% of them liked music and 10% of them liked none:

- (क) उक्त सर्वेक्षणमा कुनै पनि मन नपराउने विद्यार्थीको समूहलाई गणनात्मकता संकेतमा लेख्नुहोस् ।
Write the cardinality notation of students who did not like any option in that survey. [1]
- (ख) यदि त्यो समूहबाट ३० जनाले साहित्य र संगीत दुवै मन पराउने पाइयो भने उक्त सर्वेक्षणमा कति जनाले भाग लिएका थिए, पत्ता लगाउनुहोस् ।
If there were 30 students liked both of them, find the number of students participated in the survey. [3]
- (ग) माथिको जानकारीलाई भेनचित्रमा चित्रण गर्नुहोस् । Show the above information in a Venn diagram. [1]
- (घ) कुनै पनि मन नपराउने विद्यार्थीहरूमध्ये १० जना विद्यार्थीहरूले यदि संगीत मनपर्छ भनी उक्त दिएको अवस्थामा साहित्य मन पराउने र संगीत मन पराउने विद्यार्थीहरूको अनुपात कति हुन्छ? हिसाब गर्नुहोस् ।
Find the ratio of students who like literature and music if 10 students out of none like students answer that they like music. Calculate. [1]

Solution:

Let, L and M denote the set of students who liked literature and music respectively and $n(U) = x$.

Then, $n(L) = 40\%$ of $x = 0.4x$, $n(M) = 65\%$ of $x = 0.65x$, $n(\overline{L \cup M}) = 10\%$ of $x = 0.1x$.

- (a) The cardinality notation of students who did not like any option in that survey is given by
 $n(\overline{L \cup M}) = 0.1x$.

- (b) $n(L \cap M) = 30$

We have, $n(U) = n(L) + n(M) - n(L \cap M) + n(\overline{L \cup M})$

$$\text{or, } x = 0.4x + 0.65x - 30 + 0.1x$$

$$\text{or, } x = 1.15x - 30$$

$$\text{or, } 30 = 0.15x$$

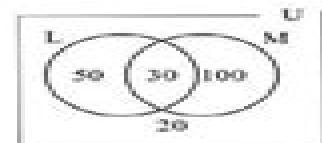
$$\text{or, } x = \frac{30}{0.15}$$

$$\therefore x = 200$$

Hence, 200 students were participated in the survey.

NB: Give full marks for other relevant process with correct answer.

- (c) Showing the above information in a Venn diagram,



- (d) $n(L) = 80$, $n(M) = 130 + 10 = 140$, $n(\overline{L \cup M}) = 20 - 10 = 10$

$$\text{Ratio} = \frac{n(L)}{n(M)} = \frac{80}{140} = 4 : 7$$

Thus, if 10 students out of none liked students answer that they like music, the ratio of students who like literature and music would be 4 : 7.

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**Gautam Rao,John Campbell,Castle
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Table of Contents Mathematics 20final 20question 20paper 20grade 20 39

1. Understanding the eBook Mathematics 20final 20question 20paper 20grade 20 39
 - The Rise of Digital Reading Mathematics 20final 20question 20paper 20grade 20 39
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 20final 20question 20paper 20grade 20 39
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics 20final 20question 20paper 20grade 20 39
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 20final 20question 20paper 20grade 20 39
 - Personalized Recommendations

- Mathematics 20final 20question 20paper 20grade 20 39 User Reviews and Ratings
- Mathematics 20final 20question 20paper 20grade 20 39 and Bestseller Lists
- 5. Accessing Mathematics 20final 20question 20paper 20grade 20 39 Free and Paid eBooks
 - Mathematics 20final 20question 20paper 20grade 20 39 Public Domain eBooks
 - Mathematics 20final 20question 20paper 20grade 20 39 eBook Subscription Services
 - Mathematics 20final 20question 20paper 20grade 20 39 Budget-Friendly Options
- 6. Navigating Mathematics 20final 20question 20paper 20grade 20 39 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics 20final 20question 20paper 20grade 20 39 Compatibility with Devices
 - Mathematics 20final 20question 20paper 20grade 20 39 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics 20final 20question 20paper 20grade 20 39
 - Highlighting and Note-Taking Mathematics 20final 20question 20paper 20grade 20 39
 - Interactive Elements Mathematics 20final 20question 20paper 20grade 20 39
- 8. Staying Engaged with Mathematics 20final 20question 20paper 20grade 20 39
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 20final 20question 20paper 20grade 20 39
- 9. Balancing eBooks and Physical Books Mathematics 20final 20question 20paper 20grade 20 39
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 20final 20question 20paper 20grade 20 39
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics 20final 20question 20paper 20grade 20 39
 - Setting Reading Goals Mathematics 20final 20question 20paper 20grade 20 39
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics 20final 20question 20paper 20grade 20 39
 - Fact-Checking eBook Content of Mathematics 20final 20question 20paper 20grade 20 39

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web graph theory stephen c locke in encyclopedia of social measurement 2005 algorithms having a list of problems that can be addressed with the language of graph