

NAZARETH SCHOOLS

2/32 Moshood Ekun Road, Foursquare Bus Stop,

Off Matogun Road, Via Okearo, Ogun State.

3RD TERM EXAMINATION

Class: S52

Subject: Mathematics

Duration: 2hrs

Section A: Objectives.

Answer all questions in this section.

1. Round off the product of 0.025 and 3 to 1 significant figure. (a) 0.0075 (b) 0.007 (c) 0.008 (d) 0.009
2. What is the value of 8 in 7.6847? (a) 8/10 (b) 8/100 (c) 8/1000 (d) 8/10000
3. If $x=3$, $y=2$ and $z=4$, what is the value of $3x^2 - 2y + z$? (a) 17 (b) 27 (c) 35 (d) 71
4. A chord of length 6cm is drawn in a circle of radius 5cm. Find the distance of the chord from the center of the circle. (a) 2.5cm (b) 3.5cm (c) 3.0cm (d) 4.0cm
5. Two circles have radii 16cm and 23cm respectively. What is the difference between their circumferences? (Take $\pi = 22/7$) (a) 244.92cm (b) 149.92cm (c) 44.0cm (d) 43.96cm
6. Given that $P = \{b, d, e, f\}$ and $Q = \{a, c, f, g\}$ are subsets of the universal set $U = \{a, b, c, d, e, f, g\}$. Find $P \cap Q$. (a) $\{a, c\}$ (b) $\{a, c, d, g\}$ (c) $\{c, d, g\}$ (d) $\{a, c, g\}$
7. If x varies inversely as y and $x = 2/3$ when $y = 9$, find the value of y when $x = 3/4$. (a) $1/18$ (b) $8/81$ (c) $9/2$ (d) 8
8. Solve the equation: $3+5x-2x^2=0$ (a) $-1/2, -3$ (b) 2, 3 (c) -2, 3 (d) $-1/2, 3$



Use The Information From a Survey In The Venn Diagram Above To Answer Questions 9- 12

9. How many students took the survey? (a) 32 (b) 47 (c) 53 (d) 56
10. How many students do not snowboard (a) 21 (b) 22 (c) 28 (d) 29
11. How many students snowboard and ice-skate (a) 3 (b) 4 (c) 5 (d) 7
12. How many students do not engage in any activity (a) 4 (b) 6 (c) 8 (d) 3
13. P varies as the square of W . When $W = 4$, $P = 9$. Find the value of P when $W = 9$.
14. Form a quadratic equation with the following roots $\alpha = 6$ and $\beta = -1/2$ (a) $2x^2 - 11x - 6 = 0$ (b) $x^2 - 11x - 3 = 0$ (c) $2x^2 - 2x - 6 = 0$ (d) $x^2 - 11x - 6 = 0$
15. $\log_4 12 + \log_4 15 - \log_4 5$ (a) 22 (b) 2 (c) -22 (d) -2
16. A rectangle has length X cm and width $(X-1)$ cm. If the perimeter is 6cm, find the value of X ? (a) 3.5cm (b) 4cm (c) 4.5cm (d) 2cm
17. If y varies inversely as x^2 and $x = 3$ when $y = 4$, find y when $x = 2$ (a) 1 (b) 3 (c) 9 (d) 18

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Table of Contents Nd Term Maths Exam 2015 For Ss1

1. Understanding the eBook Nd Term Maths Exam 2015 For Ss1
 - The Rise of Digital Reading Nd Term Maths Exam 2015 For Ss1
 - Advantages of eBooks Over Traditional Books
2. Identifying Nd Term Maths Exam 2015 For Ss1
 - 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 Nd Term Maths Exam 2015 For Ss1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nd Term Maths Exam 2015 For Ss1
 - Personalized Recommendations
 - Nd Term Maths Exam 2015 For Ss1 User Reviews and Ratings
 - Nd Term Maths Exam 2015 For Ss1 and Bestseller Lists
5. Accessing Nd Term Maths Exam 2015 For Ss1 Free and Paid eBooks

- Nd Term Maths Exam 2015 For Ss1 Public Domain eBooks
- Nd Term Maths Exam 2015 For Ss1 eBook Subscription Services
- Nd Term Maths Exam 2015 For Ss1 Budget-Friendly Options
- 6. Navigating Nd Term Maths Exam 2015 For Ss1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nd Term Maths Exam 2015 For Ss1 Compatibility with Devices
 - Nd Term Maths Exam 2015 For Ss1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nd Term Maths Exam 2015 For Ss1
 - Highlighting and Note-Taking Nd Term Maths Exam 2015 For Ss1
 - Interactive Elements Nd Term Maths Exam 2015 For Ss1
- 8. Staying Engaged with Nd Term Maths Exam 2015 For Ss1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nd Term Maths Exam 2015 For Ss1
- 9. Balancing eBooks and Physical Books Nd Term Maths Exam 2015 For Ss1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nd Term Maths Exam 2015 For Ss1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nd Term Maths Exam 2015 For Ss1
 - Setting Reading Goals Nd Term Maths Exam 2015 For Ss1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nd Term Maths Exam 2015 For Ss1
 - Fact-Checking eBook Content of Nd Term Maths Exam 2015 For Ss1
 - 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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