

SS 1 Mathematics

- Express 0.0098 in standard form (a) 9.8×10^{-3} (b) 9.8×10^{-2} (c) 9.8×10^2 (d) 9.8×10^3
- Calculate 73×98 , leaving your answer in the standard form (a) 7.154×10^{-3} (b) 7.154×10^{-2} (c) 7.154×10^3 (d) 7.154×10^2
- If $2^{2m}=32$, find the value of m (a) $-4\frac{2}{3}$ (b) 5 (c) $-1\frac{2}{3}$ (d) $-2\frac{2}{3}$
- If $3^{2x-1}=1/27$, find the value of x (a) -2 (b) -1 (c) 1 (d) 2
- A number is multiplied by 5 and the result is twice the number added to 2, find the number. (a) $2/7$ (b) $2/3$ (c) $1\frac{1}{2}$ (d) $3\frac{1}{2}$
- Factorize $x^2-10x+25$ (a) $(x+5)(x-2)$ (b) $(x-5)(x-5)$ (c) $(x+5)(x-5)$ (d) $(x+10)(x-2)$
- The tangent of $32\frac{1}{2}^\circ$ equal to _____ (a) 0.2309 (b) 0.6371 (c) 0.8229 (d) 0.8214
- Find the angle whose sine is 0.8660 (a) 30° (b) 60° (c) 45° (d) 90°
- If t varies directly as s and $t = \frac{3}{2}$, when $s=4$ find t when $s=6$ (a) $\frac{3}{4}$ (b) $4/3$ (c) $6/9$ (d) $1/8$
- P varies Q and $P=45$ when $Q=12$, find the relationship between P and Q. (a) $P=3.75Q$ (b) $Q=0.375P$ (c) $P=0.573$ (d) $Q=0.573P$
- Convert 142_{10} to base six (a) 354_{six} (b) 322_{six} (c) 453_{six} (d) 543_{six}
- Express 110111_{two} to base 10 (a) 65_{ten} (b) 56_{ten} (c) 55_{ten} (d) 555_{ten}
- If $\sin A=4/5$, the $\cos A =$ (a) $2/5$ (b) $3/5$ (c) $\frac{3}{4}$ (d) $5/4$
- Calculate the area of a sector circle which subtends an angle of 45° at the centre of the circle, radius 14cm ($\pi=\frac{22}{7}$) (A) 77cm (B) 75cm (C) 76cm (D) 87cm
- Solve the equation $8x^2-14x+5=0$ (a) $x=\frac{1}{2}$ or $1\frac{1}{2}$ (b) $x=\frac{-1}{4}$ or $\frac{1}{2}$ (c) $x=-2\frac{1}{4}$ or $\frac{-1}{2}$ (d) $x=\frac{4}{5}$ or $\frac{1}{2}$ (e) $x=\frac{1}{2}$ or $\frac{5}{4}$
- Find the equation whose roots are $\frac{-2}{3}$ and $\frac{3}{4}$ (a) $12x^2-x-6=0$ (b) $12x^2-7x-6=0$ (c) $15x^2-7x-5=0$ (d) $12x^2-7x-6=0$ (e) $12x^2+4x-6=0$
- Solve the equation $9x^2=3x$ (a) $x=\frac{1}{3}$ (b) $x=0$ or $\frac{1}{2}$ (c) $x=0$ or $\frac{1}{3}$ (d) $x=1$ or $\frac{2}{3}$ (e) $x=3$ or $x=-3$
- What is the sine equivalent of $\cos 60^\circ$ (a) 30° (b) 45° (c) 90° (d) 45° (e) 75°
- If $\sin P=0.5$, What is $\cos P$? (a) 30° (b) 45° (c) 90° (d) 60° (e) 75°
- Solve for n, in $5n=625$ (a) 125 (b) 25 (c) 225 (d) 3 (e) 15

THEORY QUESTION

SECTION B: Answer all the questions in this Section

- If $\tan \theta = \frac{8}{15}$, find the value of: (i) $\frac{\sin \theta + \cos \theta}{\cos \theta \csc \theta}$ (ii) $1-2\tan \theta$ (5 mks)
- 400 students were asked whether they liked yam, cornflakes, bread, rice or some other type of food for breakfast, the following data was recorded.

Type of Food	Yam	Cornflakes	Bread	Rice	Other
Frequency	65	110	80	120	25

Unified Examination For Ss1 Mathematics

Reza Nazari



Unified Examination For Ss1 Mathematics:

Bulletin Institute of Mathematics and Its Applications,1989 **Dissertation Abstracts International** ,1980
Preliminary Examination in Mathematics and Mathematics and Computation University of Oxford,1999 **Math 87 1e Test Master** Various,1991-01-01 **Model Exam Papers for Maths S1 Express** , **Teacher's lesson plan book** Eugene Douglas Nichols,1985 **Matriculation Examination** University of London,1946 **Mississippi Academic Assessment Program (MAAP) Test Prep : Algebra 1 Weekly Practice WorkBook Volume 1** Gowri Vemuri,2023
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Table of Contents Unified Examination For Ss1 Mathematics

1. Understanding the eBook Unified Examination For Ss1 Mathematics
 - The Rise of Digital Reading Unified Examination For Ss1 Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Unified Examination For Ss1 Mathematics
 - 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 Unified Examination For Ss1 Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unified Examination For Ss1 Mathematics
 - Personalized Recommendations
 - Unified Examination For Ss1 Mathematics User Reviews and Ratings
 - Unified Examination For Ss1 Mathematics and Bestseller Lists
5. Accessing Unified Examination For Ss1 Mathematics Free and Paid eBooks
 - Unified Examination For Ss1 Mathematics Public Domain eBooks
 - Unified Examination For Ss1 Mathematics eBook Subscription Services
 - Unified Examination For Ss1 Mathematics Budget-Friendly Options

6. Navigating Unified Examination For Ss1 Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Unified Examination For Ss1 Mathematics Compatibility with Devices
 - Unified Examination For Ss1 Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unified Examination For Ss1 Mathematics
 - Highlighting and Note-Taking Unified Examination For Ss1 Mathematics
 - Interactive Elements Unified Examination For Ss1 Mathematics
8. Staying Engaged with Unified Examination For Ss1 Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unified Examination For Ss1 Mathematics
9. Balancing eBooks and Physical Books Unified Examination For Ss1 Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unified Examination For Ss1 Mathematics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Unified Examination For Ss1 Mathematics
 - Setting Reading Goals Unified Examination For Ss1 Mathematics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Unified Examination For Ss1 Mathematics
 - Fact-Checking eBook Content of Unified Examination For Ss1 Mathematics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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web calculate the mass percent mole fraction molality and molarity of hexane C_6H_{14} $d = 0.660 \text{ g cm}^{-3}$ when it is mixed with heptane C_7H_{16} $d = 0.684 \text{ g cm}^{-3}$ in a 35.0 : 55.0 ml ratio assume that the volumes are additive

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web aug 30 2012 here we'll do practice problems with molarity calculating the moles and liters to find the molar concentration we'll also have to use conversion factors to convert between grams and moles and

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web for the first five problems you need to use the equation that says that the molarity of a solution is equal to the number of moles of solute divided by the number of liters of solution in this problem simply solve using the molarity equation to find that the concentration of the solution is 10 M

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6.1 calculating molarity problems chemistry libretexts - Aug 21 2023

web problem 6.1 6.1 6 calculate the molarity of each of the following solutions a 0.195 g of cholesterol $C_{27}H_{46}O$ in 0.100 L of serum the average concentration of cholesterol in human serum b 4.25 g of NH_3 in 0.500 L of solution the concentration of NH_3 in household ammonia

15.03 solution concentration molality mass percent ppm and - Jul 20 2023

web a similar unit of concentration is molality m which is defined as the number of moles of solute per kilogram of solvent not per liter of solution molality $\text{frac moles solute kilograms solvent}$ mathematical manipulation of molality is the

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web 1 molarity $M = \frac{\text{mass}}{\text{molar mass}} \times \frac{1}{0.4500 \text{ L}} = \frac{0.825 \text{ g}}{141.9579 \text{ g mol}^{-1}} \times \frac{1}{0.0129 \text{ m}^3} = 0.00581158 \text{ mol L}^{-1}$ 2 molality $m = \frac{0.825 \text{ g}}{141.9579 \text{ g mol}^{-1}} \times \frac{1}{0.00581158 \text{ mol L}^{-1}} = 0.4500 \text{ kg}$ 3 mole fraction $n_2 = \frac{0.825 \text{ g}}{141.9579 \text{ g mol}^{-1}} \times \frac{1}{0.00581158 \text{ mol L}^{-1} + 0.4500 \text{ kg}} = 0.015$ 4 97918401 mol

16.11 molality chemistry libretexts - Mar 16 2023

web molality differs from molarity only in the denominator while molarity is based on the liters of solution molality is based on the kilograms of solvent concentrations expressed in molality are used when studying properties of solutions related to vapor pressure and temperature changes

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web what mass of CoCl_2 in grams is needed for the solution express the answer using 3 significant figures

8 3 concentrations of solutions problems chemistry libretexts - Dec 13 2022

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web answer the mass percentage of an element of a solution is defined as the mass of the solute in grammes present in 100 g of the solution it s written like this
$$\text{begin array l} \frac{\text{mass of a component}}{\text{mass of component in solution total mass of solution}} \times 100 \text{ end array}$$

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web aug 13 2017 molarity practice problems this chemistry video tutorial explains how to solve common molarity problems it discusses how to calculate the concentration of a solution given the mass in grams