

First Final Examination
Mathematics Grade 9
Copper

Test I. Multiple Choice

Direction: Choose the letter of the correct answer and write it in your answer sheet.

1. An algebraic expression consisting of one term or sum of terms is called _____.
a. monomial b. binomial c. trinomial d. polynomial
2. What do you call of a polynomial equation of degree two that can be written in the form of $ax^2 + bx + c = 0$?
a. linear equation b. linear inequality c. quadratic equation d. quadratic function
3. Which of the following is a quadratic equation?
a. $2a^2 + 4b = 1$ b. $3t - 7 = 2$ c. $m^2 + 5m = 4$ d. $2x^2 - 7x \geq 3$
4. In the quadratic equation $3x^2 + 7x - 4 = 0$ which is the quadratic term?
a. x^2 b. $7x$ c. $3x^2$ d. -4
5. How many real roots does the quadratic equation $x^2 - 6x + 8 = 0$ have?
a. 0 b. 1 c. 2 d. 3
6. What is the product of $-3(x^2 + 4)$?
a. $-3x^2 - 4$ b. $-3x^2 + 4$ c. $3 - 3x^2 + 12$ d. $x^2 + 12$
7. What is the sum of $6x^2 - 3x + 1$ and $2x^2 + 5x - 3$?
a. $8x^2 + 2x + 4$ b. $8x^2 + 2x - 2$ c. $8x^4 - 8x^2 - 2$ d. $8x^4 + 2x^2 - 2$
8. In multiplying $(x - 5)$ and $(2x + 4)$, the product of the inner term is _____.
a. $2x^2$ b. $-10x$ c. $4x$ d. -20
9. In the equation, $ax^2 + bx + c = 0$, which is the constant term?
a. ax^2 b. bx c. x d. c
10. Which of the following is not quadratic equation?
a. $8k - 3 = 12$ b. $6p^2 - p = 10$ c. $x^2 = 144$ d. $2m + n = 0$
11. The standard form of the quadratic equation $2x(x - 5) = 6$ is _____.
a. $2x^2 - 5x + 6 = 0$ b. $3x^2 - 10x - 6 = 0$ c. $2x^2 - 10x = 6$ d. $2x^2 - 10x - 6 = 0$
12. In the quadratic equation $(x-3)^2 = 1$ the value of b is _____.
a. -3 b. -4 c. -5 d. -6.
13. $\sqrt{8}$ is equal to _____.

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M Carnoy



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Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

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The Politics of Education in

Developing Countries Sam Hickey, Naomi Hossain, 2019-02-21 Why have many developing countries that have succeeded in expanding access to education made such limited progress on improving learning outcomes There is a growing recognition that the learning crisis constitutes a significant dimension of global inequality and also that educational outcomes in developing countries are shaped by political as well as socio economic and other factors The Politics of Education in Developing Countries focuses on how politics shapes the capacity and commitment of elites to tackle the learning crisis in six developing countries Bangladesh Cambodia Ghana Rwanda South Africa and Uganda The problem of education quality is serious across the Global South The Politics of Education in Developing Countries From Schooling to Learning deploys a new conceptual framework the domains of power approach to show how the type of political settlement shapes the level of elite commitment and state capacity to improving learning outcomes The domain of education is prone to being highly politicized as it offers an important source of both rents and legitimacy to political elites and can be central to paradigmatic elite ideas around nation building and modernity Of particular importance is the relative strength of coalitions pushing for access as against those focused on issues of higher quality education This book concludes with a discussion of entry points and strategies for thinking and working politically in relation to education quality reforms and critical commentaries

International Perspectives on Gender and Higher Education Christine Fontanini, K.M. Joshi, Saeed Paivandi, 2020-11-26 Despite improved access to higher education for women the distribution of women and men varies considerably between fields of study The chapters in this edited collection explore the participation status of women in higher education across the varying socio economic and sociological backgrounds observed in different countries and regions *Asia and the Middle-Income Trap* Francis E. Hutchinson, Sanchita Basu Das, 2016-07-01 The term Middle Income Trap refers to countries which stagnate economically after reaching a certain level of per capita income on the basis of labour and capital intensive growth and are struggling to transition towards more skill intensive and technology driven development It has resonance for the increasing number of countries in Asia who have either languished in middle income status for extended periods of time or are worried about growth slow downs This book sets out the conceptual underpinnings of the Middle Income Trap and explores the various ways it can be defined It also focuses on the debate surrounding the Middle Income Trap which questions the appropriate institutional and policy settings for middle income countries to enable them to continue past the easy phase of economic growth The book engages with this debate by investigating the role of institutions human capital and trade policy in helping countries increase their income levels and by highlighting factors which enable the shift to higher and qualitatively better growth It questions how the large emerging economies in Asia such as China Indonesia and India are currently grappling with the challenges of transitioning from labour intensive to technology and knowledge intensive production and discusses what can be learnt from the countries that have been able to escape the trap to attain high income status Providing a conceptual framework for the Middle Income Trap this book will be of interest to students and scholars of

Asian Economics Comparative Economics and Asian Studies Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step *12 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition* Disha Experts, 2019-09-06 **19 Year-wise SNAP Previous Year Solved Papers (2005 - 2023) with 5 Mock Tests 16th Edition | PYQs Question Bank | Quantitative Aptitude, Verbal Ability, Reading Comprehension & Reasoning** Disha Experts, 2024-04-25 The updated 16th Edition of the book 19 Year wise SNAP Previous Year Solved Papers 2005 2023 with 5 Mock Tests includes The book provides 19 Year Wise Original papers with authentic solutions of SNAP from 2005 2023 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP Each mock test contains questions on decision making English language Analytical logical Reasoning Quantitative Ability Data Interpretation Data Sufficiency The detailed solution to each test is provided at the end of the papers

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