

## Sample Problems for MATH 100 Readiness Test

### I. Substitution in algebraic expressions

1. Evaluate  $\frac{a-b}{a}$  if  $a = 3$  and  $b = -5$ .
2. If  $y = 2x^2 - 4x - 5$ , what is the value of  $y$  when  $x = -3$ ?
3. If  $a = -2$ , find the value of  $3(a - 2) - 2(a + 1)$ .
4. Evaluate  $\frac{xy - y^2}{2x^2}$  if  $x = -2$  and  $y = 3$ .

### II. Addition, subtraction, multiplication, and division of monomials and polynomials

For problems 5-15, perform the indicated operation and simplify your answer.

5.  $13a - 15b - a + 2b$
6.  $(2x - 1)(4x + 3)$
7.  $(2m + 3)^2$
8.  $(x^2 - 3x + 2) - (3x^2 - 5x - 1)$
9.  $\frac{6a}{3a}$
10.  $4x(x + 2)$
11.  $5x - 3y - (x + 4y)$
12.  $\frac{2y^2 + 8xy}{2y}$
13.  $(x + 2)(x^2 - 3x + 1)$
14.  $\frac{18b^4}{6b^3}$
15.  $(3y - 5x)^2$
16. Find the result if  $3x^2 + 2x - 1$  is subtracted from  $5x^2 + 2x + 3$ .
17.  $\frac{16x^2y^3}{2xy^3}$
18.  $4xy^2(x^2 + 2y + 3)$

### III. Simplification of algebraic expressions containing multiplication and addition of polynomials.

For problems 19-23, simplify the given expression.

19.  $5(a + 2) + 2(3 - a)$
20.  $6(x - 2) - (2x + 3)$
21.  $3x(2y - 4) - 2y(2x + 3)$
22.  $2y[y - (3 + 2y)]$
23.  $(3 + m)m + m^2$

### IV. Simplification of terms containing integer exponents

For problems 24-29, simplify the given expression.

24.  $\frac{a^6}{a^3}$
25.  $3x^2y(2xy^4)$
26.  $(2ab^2)^3$
27.  $(-3x^4)^2$
28.  $\frac{x^{-2}}{x^{-3}}$
29.  $\left(\frac{3x}{4y}\right)^2$

### V. Simplification of expressions containing square roots

For problems 30-34, simplify the given expression.

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**James H. McMillan**



## **Sample Problems For Math 100 Readiness Test:**

Eureka Math Grade 8 Study Guide Great Minds,2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 8 provides an overview of all of the Grade 8 modules including Integer Exponents and Scientific Notation The Concept of Congruence Similarity Linear Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry

**The University of Virginia Record** University of Virginia,1990 Mediated Learning and Cognitive Modifiability David Tzuriel,2021-09-07 This book portrays an extensive and intensive discussion of theories and research that refer to Vygotsky s and Feuerstein s theories of mediated learning and their effects on learning potential and cognitive modifiability Most topics are discussed in relation to a broad spectrum of developmental and cognitive research that are under the conceptual umbrella of mediated learning and cognitive modifiability Some topics such as neural plasticity executive functions mental rotation and cognitive education are related to mediated learning though indirectly and therefore are included in this book In many ways the book presents an extension of Vygotsky and Feuerstein s theories and empirical validation in a variety of family social and cultural contexts The book includes a thorough analysis and summary of 50 years of research and methodology of the intimate relation between mediated learning interactions and cognitive modifiability and of dynamic assessment underlying measurement of cognitive modifiability Special emphasis is given to Tzuriel s dynamic assessment instruments developed during more than four decades Tzuriel s novel instruments are interwoven in the extensive research on parent child interactions siblings teachers and peers mediation and in validation of dynamic assessment approach and cognitive education programs aimed at development of thinking skills and academic achievements

Foundations of Psychological Testing Leslie A. Miller, Robert L. Lovler, 2018-12-20 Foundations of Psychological Testing A Practical Approach by Leslie A Miller and Robert L Lovler presents a clear introduction to the basics of psychological testing as well as psychometrics and statistics Aligned with the 2014 Standards for Educational and Psychological Testing this practical book includes discussion of foundational concepts and issues using real life examples and situations that students will easily recognize relate to and find interesting A variety of pedagogical tools furthers the conceptual understanding needed for effective use of tests and test scores The Sixth Edition includes updated references and examples new In Greater Depth boxes for deeper coverage of complex topics and a streamlined organization for enhanced readability Educational Assessment of Learning Problems Gerald Wallace, Stephen C. Larsen, Linda Elksnin, 1992 Classroom Assessment for Students with Special Needs in Inclusive Settings Cathleen G. Spinelli, 2002 Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge That s what we re doing Jimmy Wales With more than 2 000 000 individual articles on everything from Aa a Japanese pop group to Zzyzx California written by an army of volunteer contributors Wikipedia is the 8 site on the World Wide Web Created and corrected by anyone with access to a computer this impressive assemblage of knowledge is growing at an astonishing rate of more than 30 000 000 words a month Now for the first time a Wikipedia insider tells the story of how it all happened from the first glimmer of an idea to the global phenomenon it s become Andrew Lih has been an administrator a trusted user who is granted access to technical features at Wikipedia for more than four years as well as a regular host of the weekly Wikipedia podcast In The Wikipedia Revolution he details the site s inception in 2001 its evolution and its remarkable growth while also explaining its larger cultural repercussions Wikipedia is not just a website it s a global community of contributors who have banded together out of a shared passion for making knowledge free Featuring a Foreword by Wikipedia founder Jimmy Wales and an Afterword that is itself a Wikipedia creation **Instructor**, 1980 **Teaching Mildly Handicapped Children in Regular Classes** Sheila Lowenbraun, James Q. Affleck, Anita L. Archer, Eugene B. Edgar, Richard S. Neel, 1976 Scott Foresman-Addison Wesley Mathematics, 2008 **Essentials of Testing and Assessment** Ed Neukrug, R. Charles Fawcett, 2010 This undergraduate textbook examines how formal and informal tests are created scored and interpreted by mental health professionals when evaluating clients and surveys the various techniques commonly used for assessing educational ability intelligence career and occupational aptitude and clinical issues Resources in Education, 1975 New Developments in Pathways Towards Diversity and Inclusion in STEM: A United States Perspective Alexander Gates, Juan Gilbert, Chris Botanga, Kim Nguyen, Bonita London, 2022-10-17 The Louis Stokes Alliances for Minority Participation LSAMP program of the US National Science Foundation has been a primary force for raising the success and graduation of minority students in STEM for 30 years Increasing the number of underrepresented students earning baccalaureate degrees and entering graduate school in STEM is the goal of LSAMP This goal has been nearly achieved through the formation of alliances of degree granting

institutions of higher learning varying from community colleges to major research institutions Currently there are 59 alliances including more than 400 institutions LSAMP is responsible for more than 650 000 bachelor s degrees earned by minority students in STEM The papers for this Research Topic should focus on the use of LSAMP activities programs and collaborations to develop pathways to success and graduation of STEM majors from minority groups that underrepresented in STEM These pathways can include any segment from pre college through graduate school Areas of special interest include mentoring research experiences transitions between levels and novel approaches for retention The studies should be research based and rigorous They can be pure research studies curriculum and design or literature reviews but they must be at a cutting edge level and be subject to detailed review and assessment

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