

## Operations with Rational Numbers

Set of rational numbers:  $Q = \{\frac{a}{b} \mid a, b, \in I, b \neq 0\}$

### Addition and Subtraction

To add or subtract rationals, you need to find a common denominator.

### Division

To divide by a rational number, multiply by the reciprocal.

$$\begin{aligned}\frac{a}{b} \div \frac{c}{d} &= \frac{a}{b} \times \frac{d}{c} \\ &= \frac{ad}{bc}\end{aligned}$$

### Example 1

Simplify  $\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10}$ .

**Solution**

$$\begin{aligned}\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10} &= \frac{-4}{10} + \frac{-15}{10} - \frac{3}{10} \\ &= \frac{-4 - 15 - 3}{10} \\ &= \frac{-22}{10} \\ &= \frac{-11}{5} \text{ or } -2\frac{1}{5}\end{aligned}$$

### Multiplication

$\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$ , but first reduce to lowest terms where possible.

### More Than One Operation

Follow the order of operations.

### Example 2

Simplify  $\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7}$ .

**Solution**

$$\begin{aligned}\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7} &= \frac{3}{4} \times \frac{-4}{5} \times \frac{-7}{3} \\ &= \frac{\cancel{3}^1}{\cancel{4}_1} \times \frac{\cancel{-4}^{-1}}{5} \times \frac{-7}{\cancel{3}_1} \\ &= \frac{7}{5} \text{ or } 1\frac{2}{5}\end{aligned}$$

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## Practise

1. Evaluate

(a)  $\frac{1}{4} + \frac{-3}{4}$

(c)  $\frac{-3}{4} - \frac{1}{-4}$

(e)  $\frac{-1}{4} - 1\frac{1}{3}$

(g)  $\frac{2}{-3} - 1\frac{5}{6}$

(i)  $\frac{-3}{5} + \frac{-3}{4} - \frac{7}{10}$

(b)  $\frac{1}{2} - \frac{-2}{3}$

(d)  $\frac{-3}{5} + \frac{3}{-4}$

(f)  $-8\frac{1}{4} - \frac{-1}{-3}$

(h)  $\frac{5}{-6} - 2\frac{1}{3}$

(j)  $\frac{2}{3} - \frac{-1}{2} - \frac{1}{-6}$

2. Evaluate

(a)  $\frac{4}{5} \times \frac{-20}{25}$

(c)  $(\frac{-1}{3})(\frac{2}{-5})$

(e)  $(\frac{1}{-2})(\frac{-2}{5})$

(g)  $(\frac{-5}{12})(-24)$

(i)  $(-1\frac{1}{10})(3\frac{1}{11})$

(b)  $\frac{3}{-2} \times \frac{6}{5}$

(d)  $(\frac{9}{4})(\frac{-2}{-3})$

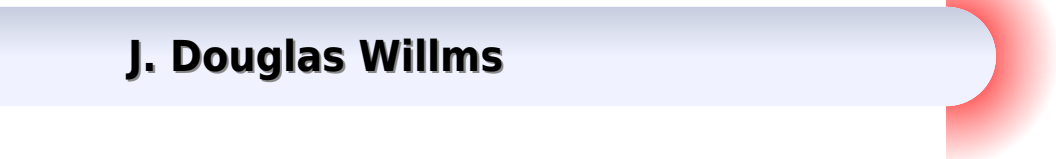
(f)  $\frac{-4}{5} \times \frac{10}{-4}$

(h)  $(-2\frac{1}{4})(\frac{2}{-9})$

(j)  $-4\frac{1}{6} \times -7\frac{3}{4}$

# 10th Grade Math Ctbs Practice Test

**J. Douglas Willms**



## 10th Grade Math Ctbs Practice Test:

8 Practice Tests for Reading and Math Michael Priestley,2001-12      Monitoring School Performance J. Douglas Willms,2003-09-02 This work evaluates methods of establishing and monitoring school systems either at the school district authority or state level from a theoretical and practical point of view The analysis and interpretation of data on      Two-way Bilingual Education Mary Cazabon,1993      **DHEW Publication No. (OE).** ,1973      **Evaluating Achievement of Senior High School Students in Canada** Lenora Perry Fagan,Dana Spurrell,1995 In Canada today there is a clear move toward a more outcomes based education system This report examines the state of high school student assessment and reviews standards and accountability strategies It reports on the policies programs and initiatives in all provincial ministries or departments of education and a sample of school boards across the country Data were derived from a telephone survey of departmental ministerial representatives from all 10 provinces and the 2 territories and from a questionnaire that was mailed to 279 school boards A total of 140 boards responded a 50 percent response rate Data show that both boards and ministries are putting more emphasis on the development of comprehensive policies to cover all aspects of student evaluation There is some movement away from relying on paper and pencil testing as the sole means of evaluation the use of more authentic performance based approaches and a greater variety of assessment techniques are being promoted Some of the best practices in high school evaluation involve use of a broad range of assessment methods introduction of or improvements to provincial examinations greater use of summative and formative evaluations greater emphasis on modifying evaluation for special needs students use of performance based assessment and more reporting to parents and the public Thirteen tables are included Appendices contain copies of the two questionnaires and selected school board material Contains 19 references LMI      **Substudies on Allocation and Targeting of Funds and Services, Assessment of Student Growth, and Effects of Attrition** ,1981      **The ETS Test Collection Catalog** ,1993      **Principles and Practices of Performance Assessment** Nidhi Khattri,Alison L. Reeve,Michael B. Kane,2012-12-06 This volume explores the recent national trend toward adoption of performance assessments Embraced at all levels of educational decision making state district school and teacher the shapes these assessments take and the affects they have at the classroom level can differ significantly from one setting to another Based on case studies of 16 schools this study describes what performance assessments actually look like the types of tasks they pose to children the scoring methods used the purposes to which they are put and how they fit in with other components of assessment systems It also shows how they differ when they are introduced by state departments of education districts and schools themselves Factors that affect policymakers and educators abilities to successfully design and introduce performance assessments are also explored These include the purposeful coordination of performance assessment with related education reforms such as the adoption of content and student performance standards and the professional development for teachers necessary to the successful implementation of performance assessments Barriers to adoption most

notably the challenges of developing a technically sound performance assessment are discussed as well. Crucial to teachers' ability to appropriate performance assessments for use in their own classrooms is their involvement in designing and implementing them. Although it would be impossible for a state or school district to involve all teachers in the design of a performance assessment, they can take steps to foster teachers' understanding of the purposes and methods of the assessment, thereby supporting their ability to use similar methods in their daily teaching. Toward that end, this book describes the experiences of teachers and students with a range of assessments that all fall under the umbrella of performance assessment. In addition, it provides rich illustrations of those experiences across a diverse group of schools, descriptions of the trade-offs inherent in developing a student assessment system, demonstrations of why no single assessment can be all things to all people, and valuable insights for teachers, administrators, policymakers, and researchers who want to improve their understanding of how performance assessments work in practice and how they may best serve to improve teaching and learning.

**Diagnostic Monitoring of Skill and Knowledge Acquisition** Norman Frederiksen, Robert Glaser, Alan Lesgold, Michael G. Shafto, 2013-07-04. An adjunct to the increased emphasis on developing students' critical thinking and higher-order skills is the need for methods to monitor and evaluate these abilities. These papers provide insight into current techniques and examine possibilities for the future. The contributors to *Diagnostic Monitoring of Skill and Knowledge Acquisition* focus on two beliefs: that new kinds of tests and assessment methods are needed and that instruction and learning can be improved by developing new assessment methods based on work in cognitive science.

**Improving Indicators of the Quality of Science and Mathematics Education in Grades K-12** National Research Council, Division of Behavioral and Social Sciences and Education, Commission on Behavioral and Social Sciences and Education, Committee on Indicators of Precollege Science and Mathematics Education, 1988-02-01. This book presents a carefully developed monitoring system to track the progress of mathematics and science education, particularly the effects of ongoing efforts to improve students' scientific knowledge and mathematics competency. It describes an improved series of indicators to assess student learning, curriculum quality, teaching effectiveness, student behavior, and financial and leadership support for mathematics and science education. Of special interest is a critical review of current testing methods and their use in probing higher-order skills and evaluating educational quality.

## Decoding **10th Grade Math Ctbs Practice Test**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**10th Grade Math Ctbs Practice Test**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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