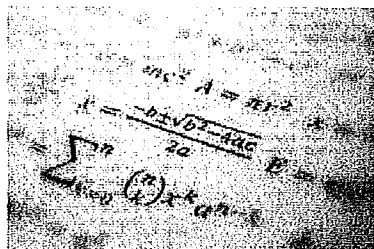


Math Toolkit – Studies and Research



Trends in International Mathematics and Science Study (TIMSS) – Overview

The Trends in International Mathematics and Science Study (TIMSS) provides reliable and timely data on the mathematics and science achievement of U.S. 4th- and 8th-grade students compared to that of students in other countries. TIMSS data have been collected in 1995, 1999, 2002, 2007, and 2011.

Highlights from TIMSS 2007: International Center for Education Statistics

The 2007 Trends in International Mathematics and Science Study (TIMSS) is the fourth administration since 1995 of this international comparison. This report focuses on the performance of U.S. students relative to that of their peers in other countries in 2007, and on changes in mathematics and science achievement since 1995.

OECD Programme for International Student Assessment (PISA) Study

All students take pencil-and-paper tests, with assessments lasting a total of two hours for each student. For the PISA 2009 assessment, some participating countries/economies have also opted for an assessment of the reading of electronic texts.

First Results from PISA 2003

The PISA test is a very rigorous test for 15 year olds and focused on mathematical application. You can also consult the publication 'Take the Test' which lists all the publicly released items from the first three assessments (PISA 2000, 2003 and 2006).

The National Assessment of Educational Progress (NAEP) 2011 Report

National Center for Education Statistics

NAEP is the largest nationally representative and continuing assessment of what America's students know and can do in various subject areas. Assessments are conducted periodically in mathematics, reading, science, writing, the arts, civics, economics, geography, and U.S. history.

Teaching Geometry According to the Common Core Standards

by H. Wu January 2012

This document is a collection of grade-by-grade mathematical commentaries on the teaching of the geometry standards in the Common Core State Standards from grade 4 to high school. The emphasis is on the progression of the mathematical ideas through the grades.

Improving Mathematical Problem Solving in Grades 4 Through 8

The goal of this practice guide is to offer educators specific, evidence-based recommendations that address the challenge of improving mathematical problem solving in grades 4 through 8.

The guide provides practical, clear information on critical topics related to improving mathematical problem solving and is based on the best available evidence as judged by the authors.

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