

FINAL RECOMMENDATIONS
Texas Essential Knowledge and Skills (TEKS)
Mathematics, Middle School

Prepared by the State Board of Education (SBOE) TEKS Review Committees

Final Recommendations, October 2011

In 2010-2011 the Commissioner’s Mathematics Advisory Group was convened to offer recommendations regarding the next generation of mathematics standards in Texas. *The Commissioner’s Draft of the Texas Mathematics Standards* reflects the recommendations of the Commissioner’s Mathematics Advisory Group and a panel of national advisors in mathematics. The SBOE-appointed mathematics TEKS review committees used *The Commissioner’s Draft of the Texas Mathematics Standards* as a starting point for their recommendations for revisions to the TEKS.

These proposed revisions reflect the recommended changes of the committees to the standards in *The Commissioner’s Draft of the Texas Mathematics Standards*. Proposed additions are shown in green font with underlines (additions) and proposed deletions are shown in red font with strikethroughs (~~deletions~~). Changes recommended based on a vertical alignment review are shown in brown font (additions or ~~deletions~~).

Comments in the right-hand column provide explanations for the proposed changes. The following notations were used as part of the explanations:

- BSG**—information added, changed, or deleted based on broad-strokes guidance from the SBOE
- CRS**—information added or changed to align with the Texas College and Career Readiness Standards (CCRS)
- ER**—information added, changed, or deleted based on expert reviewer feedback
- IF**—information added, changed, or deleted based on informal feedback
- MV**—multiple viewpoints from within the committee
- SBOE**—information added, changed, or deleted based on SBOE feedback
- VA**—information added, changed, or deleted to increase vertical alignment

TABLE OF CONTENTS

Grade 6 **pages 1–8**
Grade 7 **pages 9–15**
Grade 8 **pages 16–21**

6P03	give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients, (e.g., 2 inches per 3 seconds is equivalent to 2/3 inches per second)	Format Examples moved to PD
	<u>represent ratios and percents with concrete models, fractions, and decimals</u>	Vertical alignment
6P08	represent benchmark <u>fractions and percents equivalents such as</u> (1%, 10%, 25%, 33 1/3%, and multiples of these values) using <u>10 x 10 grids</u> , strip diagrams, number lines, and numbers	
6P09	<u>generate identify equivalent forms of</u> fractions, decimals, and percents <u>using real world problems, including problems that involve money</u>	SB 290
Knowledge and Skills Statement. The student applies mathematical process standards to solve problems involving proportional relationships. The student is expected to:		
6P04	represent mathematical and real world problems involving ratios and rates using scale factors, tables, graphs, and proportions	
6P06	solve mathematical and real-world problems involving ratios and rates using scale factors, unit rates, tables, graphs, and proportions	Covered in 7P04 ER – reduce 6 th grade content
6P07	determine conversions within a measurement system, including the use of proportion and unit rates in mathematical and real-world problems	Moved to 7 th grade
6P10	<u>solve</u> determine solutions to real-world problems, finding the whole, given the part and the percent; finding the part, given the whole and the percent ; and finding the percent, given the part and the whole <u>using concrete and pictorial models</u>	student need foundation before moving to abstract
	<u>use equivalent fractions, decimals, and percents to show equal parts of the same whole</u>	Readiness VA
Expressions, Equations and Relationships 6A		
Apply and Extend Arithmetic to Expressions and Equations		
Knowledge and Skills Statement. The student applies mathematical process standards to use multiple representations to describe algebraic relationships. The student is expected to:		
6A01	<u>identify represent</u> independent and dependent quantities <u>from tables and graphs within a mathematical or real-world problem using variables</u>	VA
6A02	write an equation that represents the relationship between independent and dependent quantities <u>from a table within a mathematical or real-world problem</u>	ER, IF, VA
6A03	represent mathematical and real-world problems with a rule equivalent to the form $y=kx$ or $y=x+b$	Combined 6A03 and 6A04

