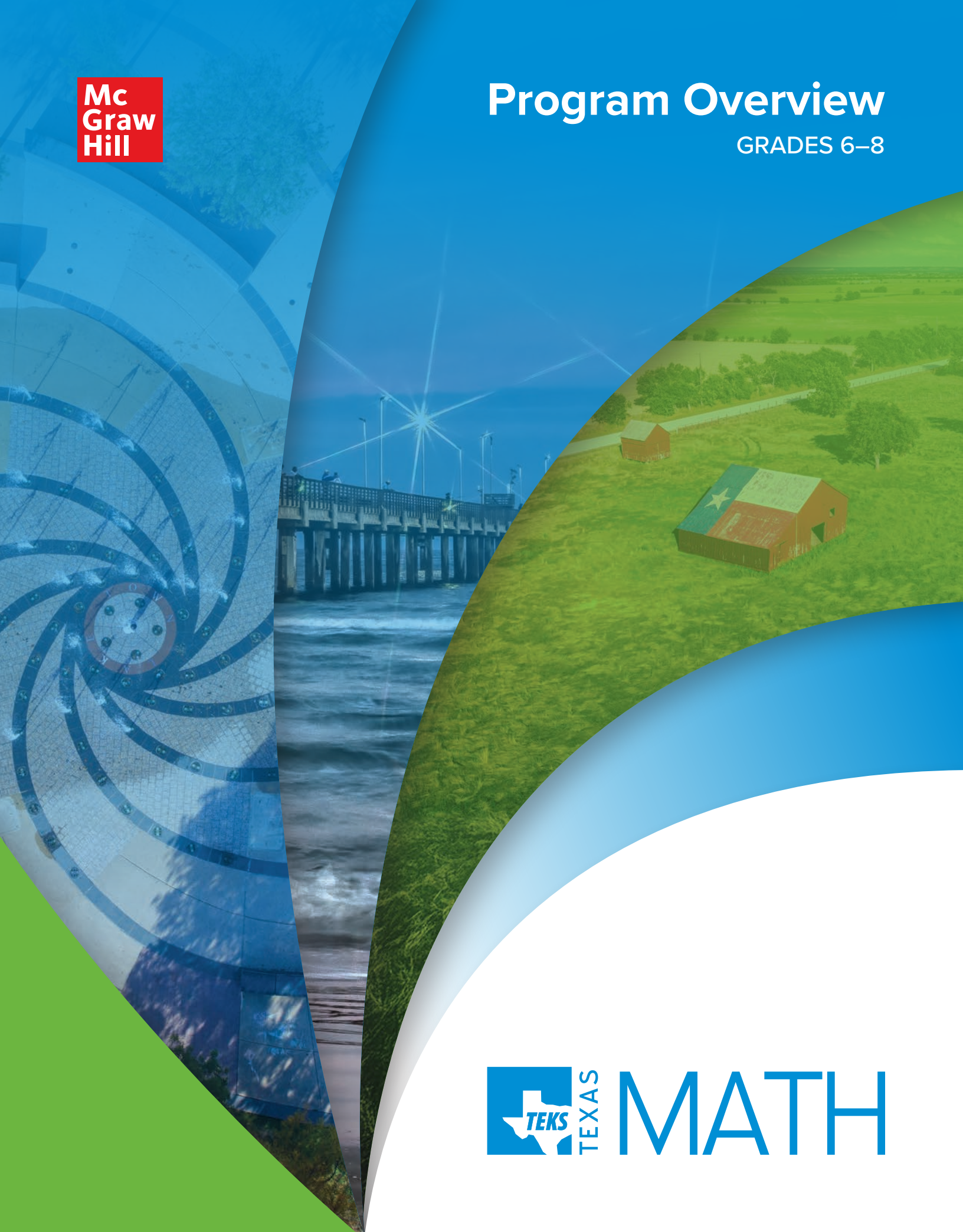
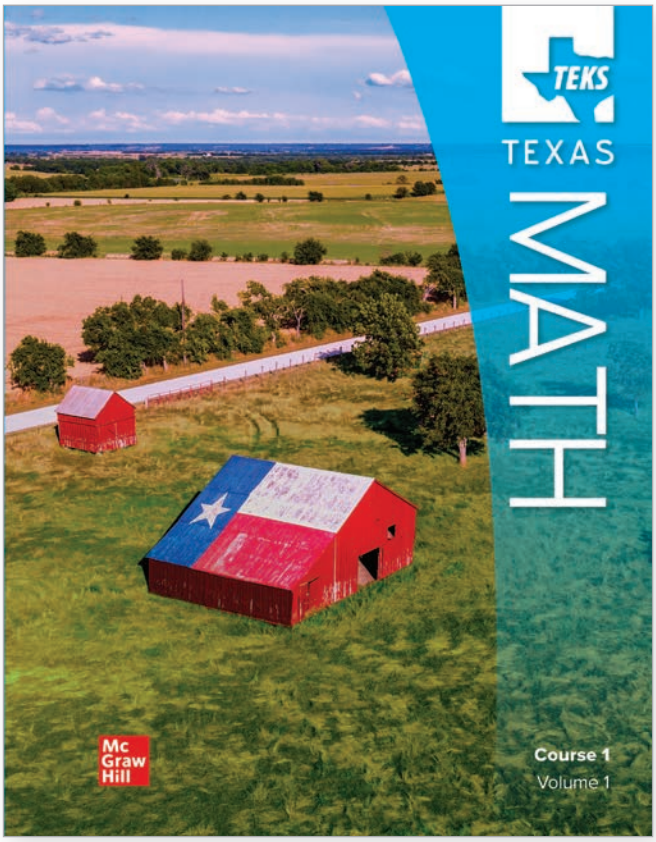


Mc Graw Hill

Program Overview

GRADES 6–8

TEKS TEXAS MATH


TEKS
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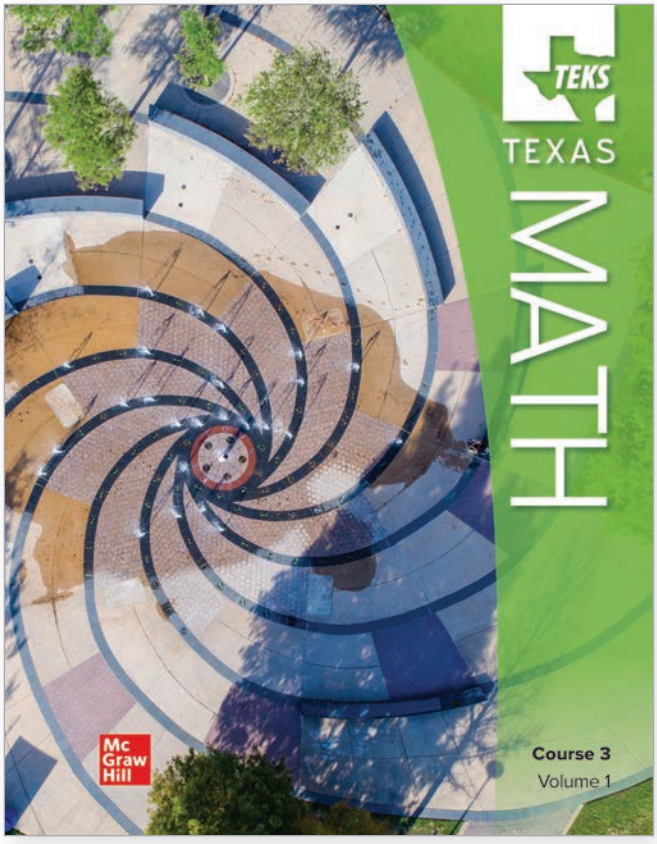
MATH
Mc Graw Hill
Course 1
Volume 1


TEKS
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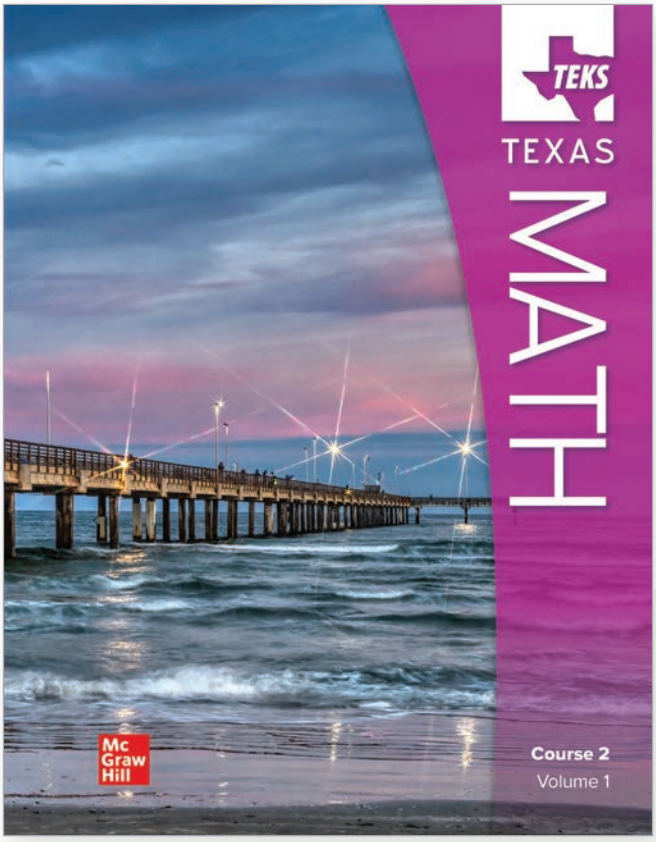
Course 3
Volume 1


TEKS
TEXAS
MATH
Mc Graw Hill
Course 2
Volume 1

Welcome to McGraw Hill *Texas Math!*

Designed for Texas teachers, fully aligned to the TEKS, and built for student success.

We designed McGraw Hill *Texas Math* from the ground up to reflect the standards, rigor, and spirit of Texas classrooms, while supporting you with tools that make planning, teaching, and reaching every learner easier and more effective.

Inside *Texas Math* you'll find:

- Texas Essential Knowledge and Skills (TEKS) guidance in every lesson to help you plan with confidence.
- State of Texas Assessments of Academic Readiness (STAAR) and college placement test-aligned support, including item types, question stems, and practice that reflects the test.
- Step-by-step teaching support for every lesson.
- Embedded differentiation and scaffolded supports for diverse learners.
- Authentic connections to make math meaningful and relevant.
- Formative checks and summative assessments to guide instruction and monitor progress.

Built for Texas

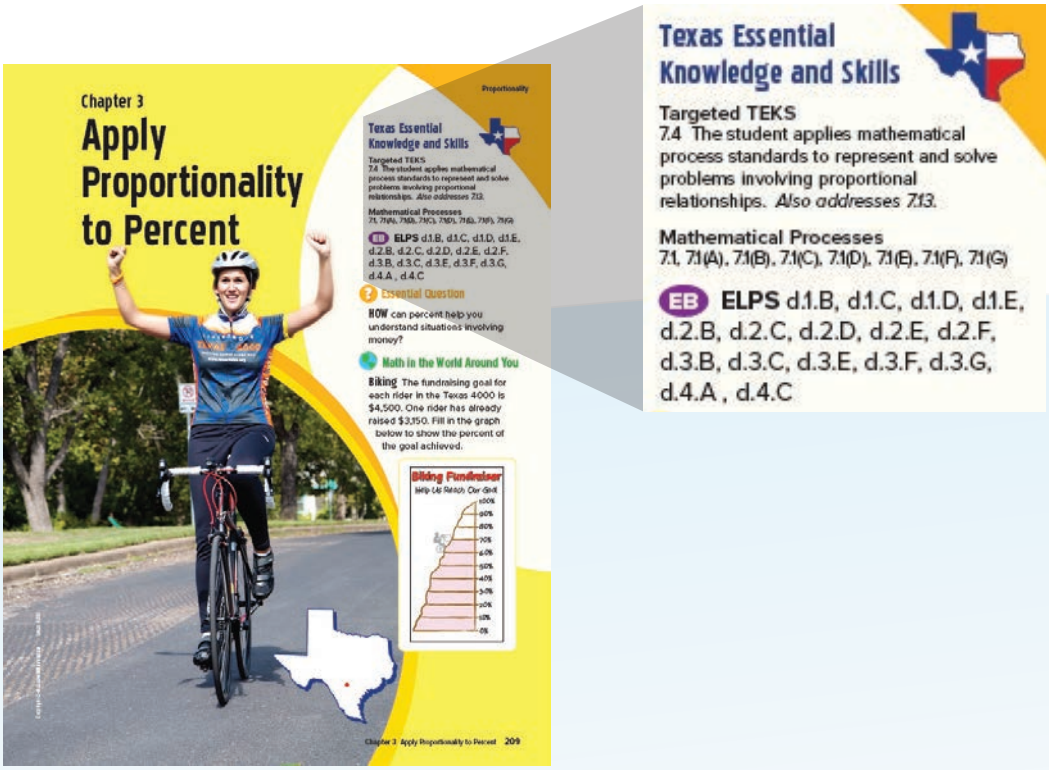
Instruction that meets the highest standards

Within each chapter of McGraw Hill *Texas Math*, you'll find:

- **Content-rich lessons** grounded in the TEKS, with a focus on conceptual understanding, procedural fluency, and real-world application.
- **Coherent progressions** across grade levels that build knowledge logically and intentionally.
- **Instructional support** to help you plan, teach, and assess with confidence.

Support every learner with seamless differentiation and English Language Proficiency Standards (ELPS) integration, including:

- **Language objectives** in each lesson supporting math and language learning together.
- **Key vocabulary** that is highlighted and reinforced in student-friendly ways.
- **Sentence starters, visual supports, and speaking opportunities** to encourage discourse and promote student confidence.
- **Differentiation** built into every lesson with tiered practice, scaffolds, and *ALEKS*® adaptive learning.



Powered by McGraw Hill's Cutting-Edge Digital Platform

McGraw Hill *Texas Math* is more than a textbook—it's an interactive teaching and learning experience, powered by a dynamic digital platform. Designed with Texas educators in mind, the digital platform gives you the flexibility, visibility, and support you need to make every math minute count.

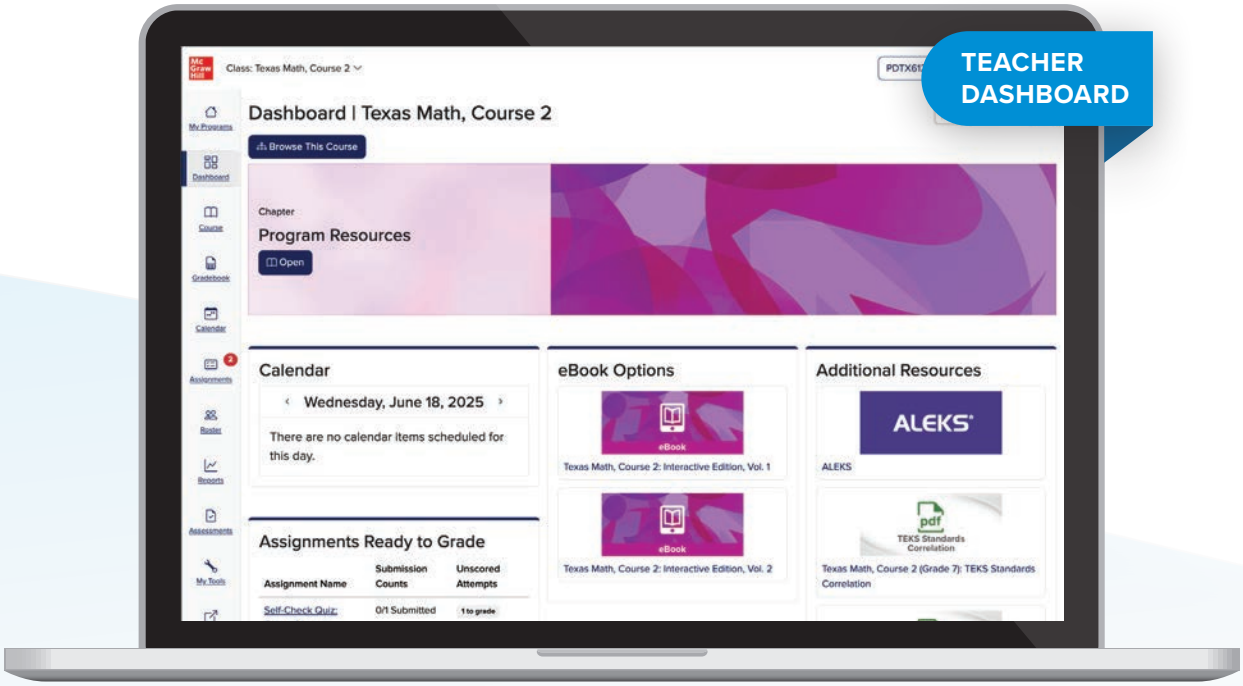
Your students have access to their own version of the digital platform, with resources such as the Student Edition eBook, calendar, and assignments. This setup empowers students to take ownership of learning by allowing them to manage schedules and track progress independently.

Learning that follows you

With the **McGraw Hill K–12 Portal Mobile App**, your students can study anywhere, even offline. Videos, eBooks, and tools are always accessible, so they can continue learning wherever they go.

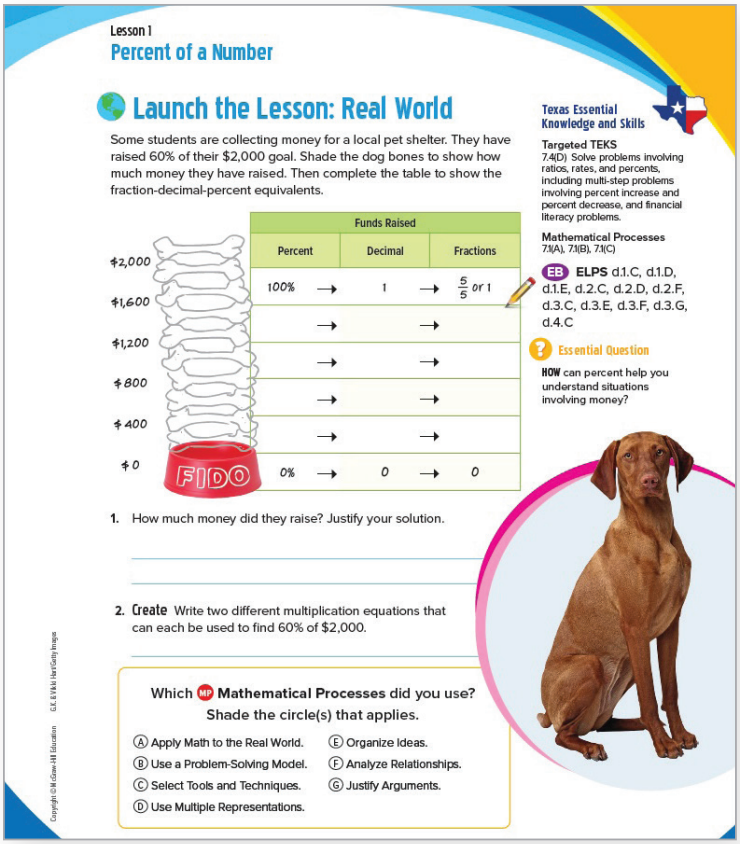
Texas-led professional learning and expert support

Professional learning delivered by real Texas educators and ongoing support from the McGraw Hill team helps empower you to develop your teaching practice and implement the program with ease.



Built for Thinking Classrooms

In the best math classrooms, students don't just listen—they think! Every lesson in McGraw Hill *Texas Math* invites students to make sense of problems, share their reasoning, and learn from one another. You'll find opportunities to foster deep thinking at every level—including for accelerated learners and those who need a boost.


Lesson 1
Percent of a Number

Launch the Lesson: Real World

Some students are collecting money for a local pet shelter. They have raised 60% of their $2,000 goal. Shade the dog bones to show how much money they have raised. Then complete the table to show the fraction-decimal-percent equivalents.

Funds Raised

Percent	Decimal	Fractions
100% →	1 →	$\frac{5}{5}$ or 1
→	→	
→	→	
→	→	
→	→	
0% →	0 →	0

$2,000 $1,600 $1,200 $800 $400 $0

FIDO

1. How much money did they raise? Justify your solution.

2. Create Write two different multiplication equations that can each be used to find 60% of $2,000.

Which MP Mathematical Processes did you use? Shade the circle(s) that applies.

Ⓐ Apply Math to the Real World. Ⓔ Organize Ideas.
Ⓑ Use a Problem-Solving Model. Ⓕ Analyze Relationships.
Ⓒ Select Tools and Techniques. Ⓖ Justify Arguments.
Ⓓ Use Multiple Representations.

Texas Essential Knowledge and Skills

Targeted TEKS
7.4(D) Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems.

Mathematical Processes
7.1(A), 7.1(B), 7.1(C)

EB ELPS d.1.C, d.1.D, d.1.E, d.2.C, d.2.D, d.2.F, d.3.C, d.3.E, d.3.F, d.3.G, d.4.C

Essential Question

HOW can percent help you understand situations involving money?

Problem-based learning starts every lesson

Begin with **Launch the Lesson**, an engaging task that gets students **talking, reasoning, and collaborating** from the start.

Tasks that cultivate divergent thinking

Lessons encourage students to use different tools and approaches to solve problems and justify their thinking. **Open-ended questions and activities** promote self-analysis and collaboration.

Structured collaboration and discussion

Partner and group tasks are built into each lesson, supported by teacher prompts that guide students toward constructive dialogue and deeper understanding.

Designed to stretch, structured for growth

Teachers guide learning with **intentionally scaffolded activities** that help students wrestle with ideas before formal instruction.

McGraw Hill *Texas Math* gives you exclusive, ready-to-use tools and lesson features that make it simple to get students **thinking, talking, and exploring every day.**

Labs INQUIRY

- **Encourage hands-on learning.** Interactive activities are designed to deepen students' understanding of mathematical concepts through exploration and application.

Turn and Talks

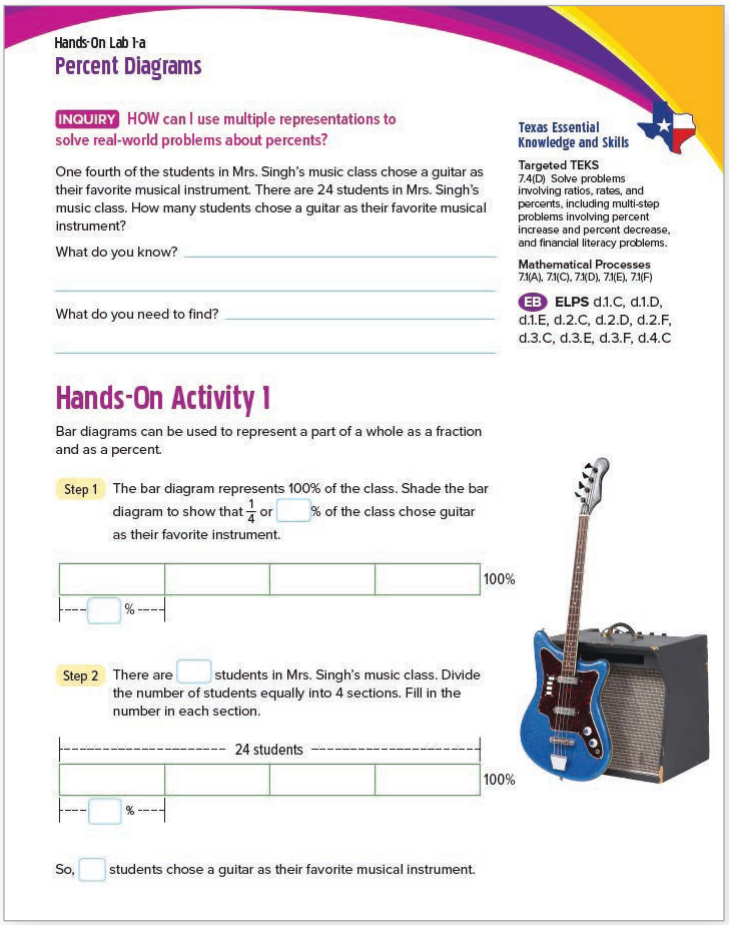
- **Elevate every voice.** Short partner discussions invite all students to verbalize ideas and respond to peers. No one's left out.

Foldables by Dinah Zike FOLDABLES

- **Make thinking visible.** Foldables help students organize and reflect on concepts by creating personalized visual references.

Find the Error

- **Learn from mistakes together.** Students critique incorrect solutions, deepening their understanding of math and building critical thinking.



Hands-On Lab 1-a

Percent Diagrams

INQUIRY HOW can I use multiple representations to solve real-world problems about percents?

One fourth of the students in Mrs. Singh's music class chose a guitar as their favorite musical instrument. There are 24 students in Mrs. Singh's music class. How many students chose a guitar as their favorite musical instrument?

What do you know? _____

What do you need to find? _____

Texas Essential Knowledge and Skills

Targeted TEKS
7.4(D) Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems.

Mathematical Processes
7.1(A), 7.1(C), 7.1(D), 7.1(E), 7.1(F)

EB ELPS d.1.C, d.1.D, d.1.E, d.2.C, d.2.D, d.2.F, d.3.C, d.3.E, d.3.F, d.4.C

Hands-On Activity 1

Bar diagrams can be used to represent a part of a whole as a fraction and as a percent.

Step 1 The bar diagram represents 100% of the class. Shade the bar diagram to show that $\frac{1}{4}$ or ___ % of the class chose guitar as their favorite instrument.

100%

___ %

Step 2 There are ___ students in Mrs. Singh's music class. Divide the number of students equally into 4 sections. Fill in the number in each section.

24 students

100%

___ %

So, ___ students chose a guitar as their favorite musical instrument.

Structured for Success: The Middle School Lesson Model

The McGraw Hill *Texas Math* lesson model is structured to engage students through a clear progression. Interactive tools, real-world connections, and differentiated activities ensure mastery of mathematical concepts.

LAUNCH THE LESSON

Launch the Lesson by activating prior knowledge, sparking curiosity, and making connections to authentic contexts through warm-up activities and essential questions.

TEACH THE CONCEPT

The core instruction phase is where you focus on concept development as you present new materials. Visual aids and **Guided Practice** ensure understanding.

Which MP Mathematical Processes did you use? Shade the circle(s) that applies.

- Ⓐ Apply Math to the Real World.
- Ⓑ Use a Problem-Solving Model.
- Ⓒ Select Tools and Techniques.
- Ⓓ Use Multiple Representations.
- Ⓔ Organize Ideas.
- Ⓕ Analyze Relationships.
- Ⓖ Justify Arguments.

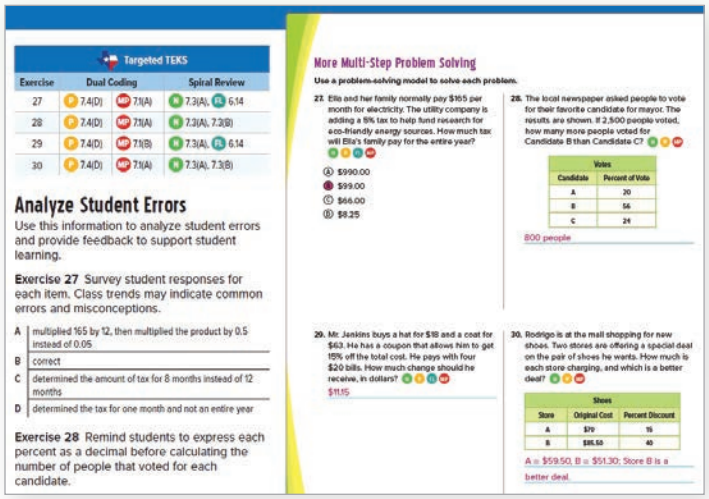
MP Standards for Mathematical Practice (MPs) are intentionally and strategically integrated into each lesson component.

PRACTICE AND APPLY

Students apply their learning through **Independent Practice**, collaborative activities, and real-world problems, reinforcing skills and promoting deeper comprehension.

ASSESS

Evaluate student understanding through **formative checks and exercises** that require multiple steps and integrate TEKS from multiple grades/focal areas. These exercises are dual-coded with content and process TEKS, and tagged with spiral review TEKS.



Targeted TEKS

Exercise	Dual Coding		Spiral Review
27	P 7.4(D)	MP 7.1(A)	R 7.3(A), RL 6.14
28	P 7.4(D)	MP 7.1(A)	R 7.3(A), 7.3(B)
29	P 7.4(D)	MP 7.1(B)	R 7.3(A), RL 6.14
30	P 7.4(D)	MP 7.1(A)	R 7.3(A), 7.3(B)

Analyze Student Errors

Use this information to analyze student errors and provide feedback to support student learning.

Exercise 27 Survey student responses for each item. Class trends may indicate common errors and misconceptions.

A	multiplied 165 by 12, then multiplied the product by 0.5 instead of 0.05
B	correct
C	determined the amount of tax for 8 months instead of 12 months
D	determined the tax for one month and not an entire year

Exercise 28 Remind students to express each percent as a decimal before calculating the number of people that voted for each candidate.

More Multi-Step Problem Solving

Use a problem-solving model to solve each problem.

27. Ella and her family normally pay $165 per month for electricity. The utility company is adding a 5% tax to help fund research for eco-friendly energy sources. How much tax will Ella's family pay for the entire year?

Ⓐ $990.00
Ⓑ $99.00
Ⓒ $66.00
Ⓓ $8.25

28. The local newspaper asked people to vote for their favorite candidate for mayor. The results are shown. If 2,500 people voted, how many more people voted for Candidate B than Candidate C?

Votes

Candidate	Percent of Vote
A	20
B	56
C	24

800 people

29. Mr. Jenkins buys a hat for $18 and a coat for $63. He has a coupon that allows him to get 15% off the total cost. He pays with four $20 bills. How much change should he receive, in dollars?

$11.15

30. Rodrigo is at the mall shopping for new shoes. Two stores are offering a special deal on the pair of shoes he wants. How much is each store charging, and which is a better deal?

Shoes

Store	Original Cost	Percent Discount
A	$70	15
B	$85.50	40

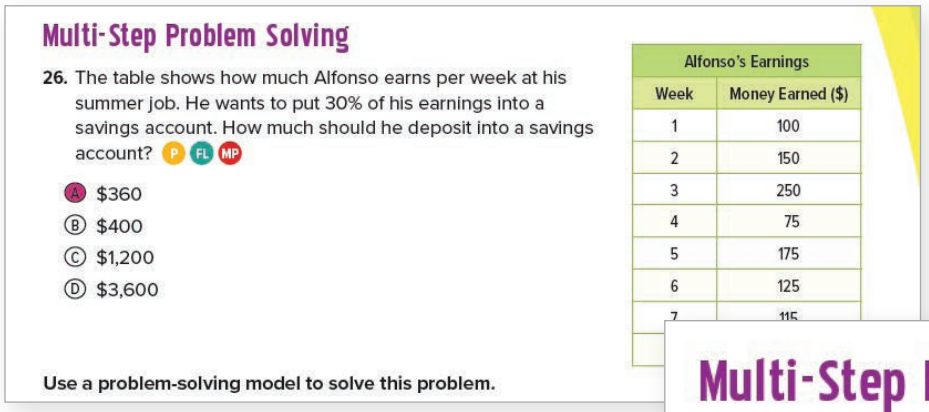
A = $59.50, B = $51.30; Store B is a better deal.

Built-in guidance is provided to help analyze student errors during assessment, diagnose the nature of the errors, and provide meaningful feedback.

Practice

McGraw Hill *Texas Math* provides cycles of learning, practice, and assessment to help you pinpoint where students need support and keep them on the path to TEKS mastery.

- **Guided Practice** is a formative assessment within the heart of the lesson, providing students with scaffolded and engaging opportunities to demonstrate their understanding of lesson concepts.
- **Independent Practice** concludes each lesson, bridging the gap between instruction and mastery. Question types such as Financial Literacy and Find the Error allow students to demonstrate their understanding in meaningful and authentic ways.
- **Multi-Step Problem-Solving** during the Assess portion of the lesson develops critical thinking skills, increasing flexibility and efficiency in problem-solving.
- **Fluency Practice** is available within each chapter to help build automaticity and a foundation of conceptual understanding.



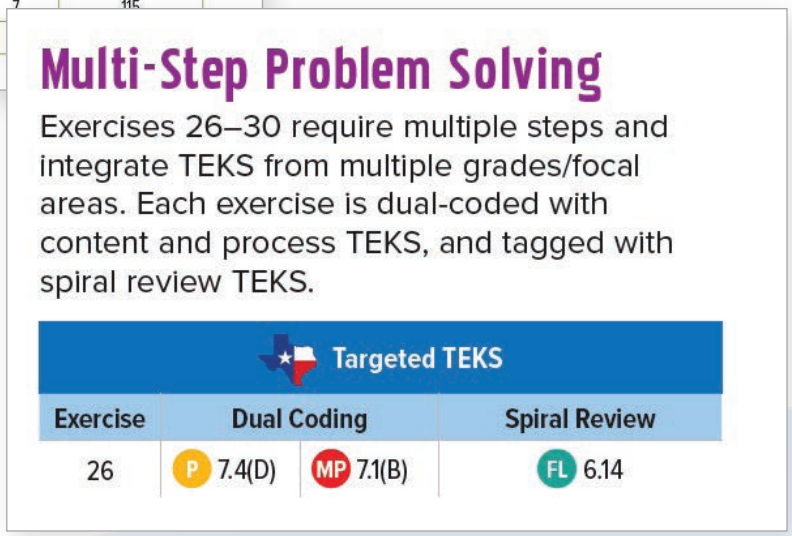
Multi-Step Problem Solving

26. The table shows how much Alfonso earns per week at his summer job. He wants to put 30% of his earnings into a savings account. How much should he deposit into a savings account? P FL MP

Ⓐ $360
Ⓑ $400
Ⓒ $1,200
Ⓓ $3,600

Use a problem-solving model to solve this problem.

Alfonso's Earnings	
Week	Money Earned ($)
1	100
2	150
3	250
4	75
5	175
6	125
7	115



Multi-Step Problem Solving

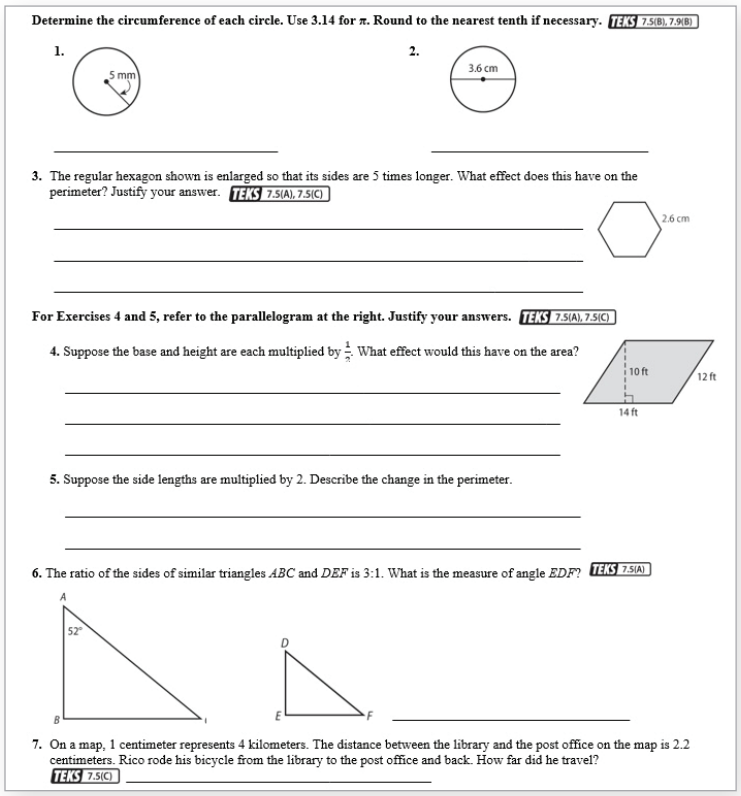
Exercises 26–30 require multiple steps and integrate TEKS from multiple grades/focal areas. Each exercise is dual-coded with content and process TEKS, and tagged with spiral review TEKS.

Targeted TEKS			
Exercise	Dual Coding		Spiral Review
26	P 7.4(D)	MP 7.1(B)	FL 6.14

Assessment That Works for You

Flexible, easy-to-use tools that help drive instruction

McGraw Hill *Texas Math* gives you the tools to understand how your students are doing—and what to do next. With a wide variety of assessments built into the program, it's easy to check in on student learning, adjust instruction, and keep everyone moving forward.



Determine the circumference of each circle. Use 3.14 for π. Round to the nearest tenth if necessary. TEKS 7.5(B), 7.9(B)

1. 5 mm

2. 3.6 cm

3. The regular hexagon shown is enlarged so that its sides are 5 times longer. What effect does this have on the perimeter? Justify your answer. TEKS 7.5(A), 7.5(C)

2.6 cm

For Exercises 4 and 5, refer to the parallelogram at the right. Justify your answers. TEKS 7.5(A), 7.5(C)

4. Suppose the base and height are each multiplied by $\frac{1}{2}$. What effect would this have on the area?

10 ft, 12 ft, 14 ft

5. Suppose the side lengths are multiplied by 2. Describe the change in the perimeter.

6. The ratio of the sides of similar triangles ABC and DEF is 3:1. What is the measure of angle EDF? TEKS 7.5(A)

A, 52°, B, C, D, E, F

7. On a map, 1 centimeter represents 4 kilometers. The distance between the library and the post office on the map is 2.2 centimeters. Rico rode his bicycle from the library to the post office and back. How far did he travel? TEKS 7.5(C)

Are You Ready?

Spot gaps before new content is taught so you can target just-right support from the start.

Chapter Pretests

Pinpoint students' skill levels early to guide review and instruction.

Mid-Chapter Checks

Get a quick read on where students are and what they've picked up so far.

Vocabulary Checks

Make sure students have the language they need to talk and think about math.

Chapter Tests

Track progress with flexible options for all learners, from on-level to advanced.

Standardized Test Practice

Help students feel prepared with questions that mirror what they'll see on state tests.

Smarter Data to Drive Instruction

Powerful reporting tools built into the digital platform make it easier than ever for teachers to access the information they need, when they need it. Whether you're reviewing individual student progress or trends across your entire class, reports are designed to be intuitive, actionable, and TEKS-aligned.

Real-time information

TEKS-Aligned Mastery Reports

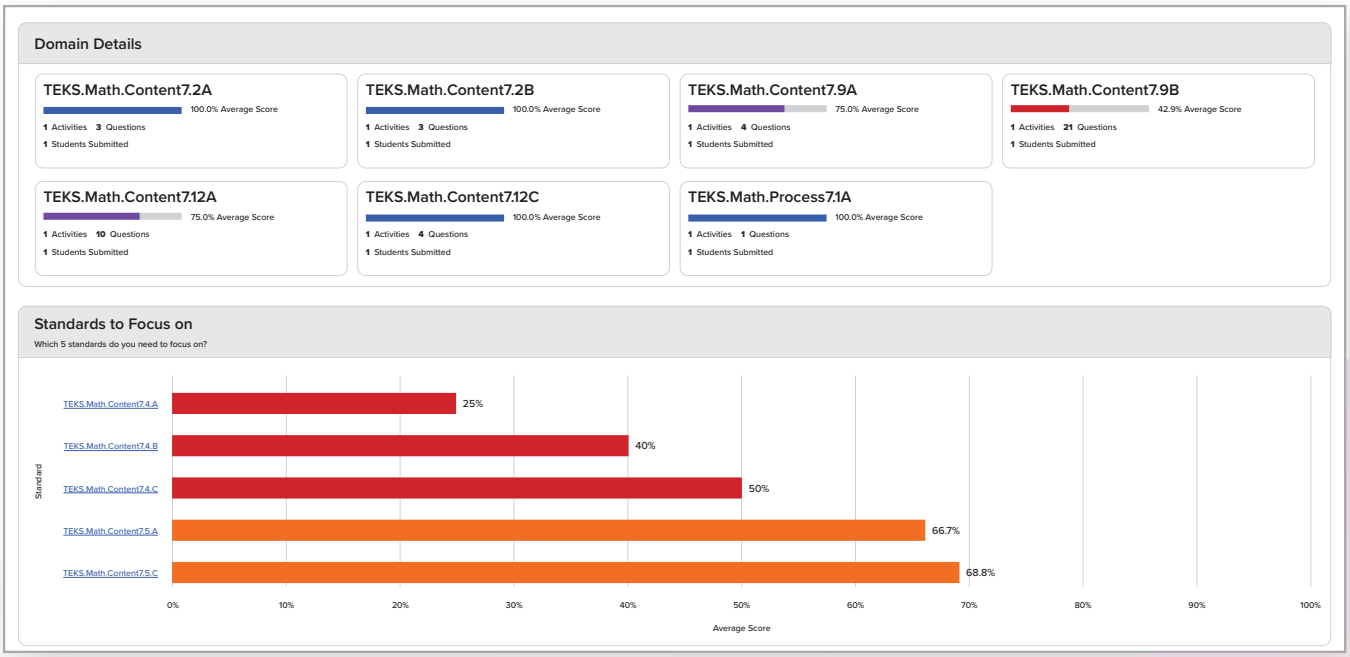
See exactly which standards students have mastered—and which ones need more support. Whether you're planning a whole class review or for differentiated instruction, these reports make it easy to pinpoint the next steps.

Assignment and Assessment Reports

Get quick, color-coded summaries of student performance on assignments, quizzes, and tests. Filter by question type, standard, or objective to learn more about where students are thriving or struggling.

Growth Over Time

Monitor student progress across units, semesters, or the full year. These longitudinal views help you celebrate growth and quickly identify learning gaps.



Support Every Learner, Every Day

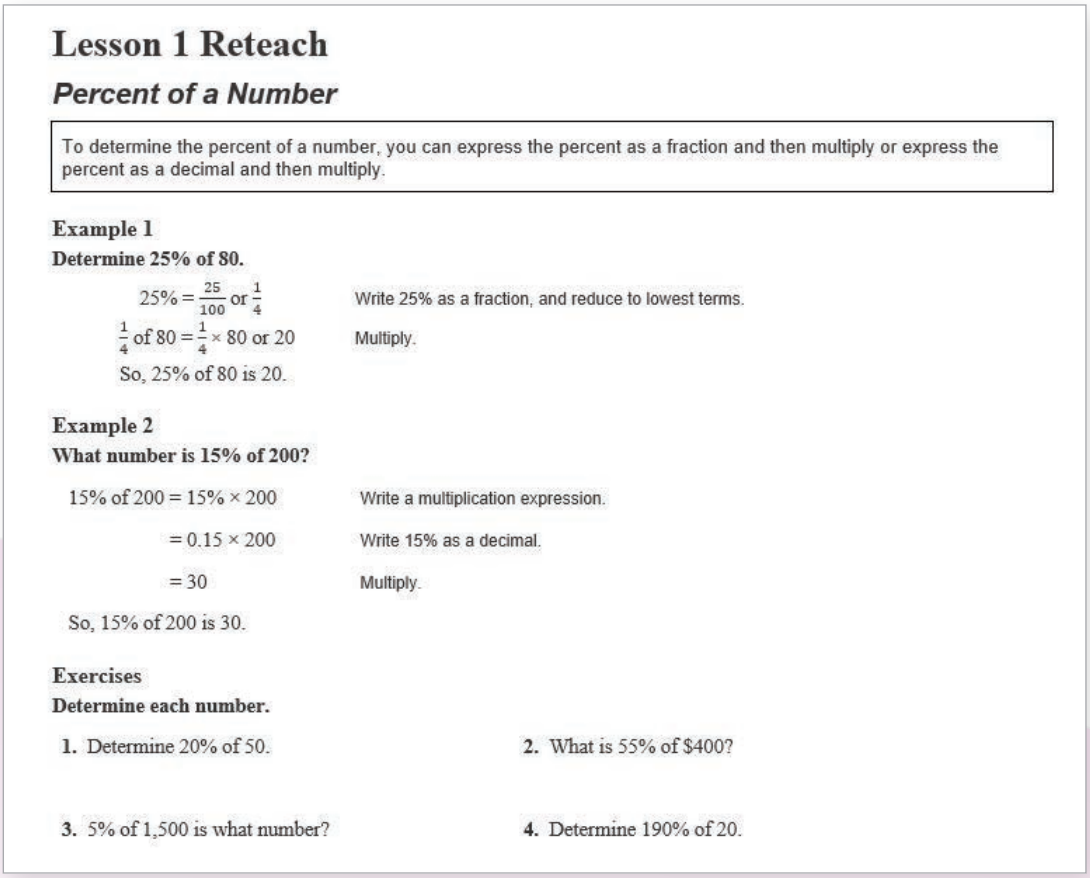
McGraw Hill *Texas Math* is built to make differentiation easier, so you can meet students where they are—freeing your time to focus on what matters most.

Differentiation is built into every lesson, with multiple entry points, practice options, and a mix of supports and extensions to serve every learner.

- **Reteach Practice** provides additional examples and practice for students who need extra support.
- **Enrich Practice** provides students with valuable opportunities for extension.
- **Differentiated Activities** offer practice opportunities for On-Level, Approaching-Level, and Beyond-Level Learners.

Built-in support like sentence frames, graphic organizers, and worked examples help all students access rigorous content.

ELPS-aligned supports, with 100% ELPS coverage built right into lessons, give you guidance and strategies to help students develop math understanding and academic language together.



Lesson 1 Reteach

Percent of a Number

To determine the percent of a number, you can express the percent as a fraction and then multiply or express the percent as a decimal and then multiply.

Example 1

Determine 25% of 80.

$25\% = \frac{25}{100}$ or $\frac{1}{4}$ — Write 25% as a fraction, and reduce to lowest terms.

$\frac{1}{4}$ of $80 = \frac{1}{4} \times 80$ or 20 — Multiply.

So, 25% of 80 is 20.

Example 2

What number is 15% of 200?

15% of 200 = 15% × 200 — Write a multiplication expression.

= 0.15 × 200 — Write 15% as a decimal.

= 30 — Multiply.

So, 15% of 200 is 30.

Exercises

Determine each number.

1. Determine 20% of 50.
2. What is 55% of $400?
3. 5% of 1,500 is what number?
4. Determine 190% of 20.

Personalized, TEKS-Aligned Support, Powered by *ALEKS*®

ALEKS is an adaptive learning platform that uses artificial intelligence to pinpoint what each student knows, what they're ready to learn next, and how best to get them there. Built on decades of research and aligned to the TEKS, *ALEKS* is seamlessly integrated into McGraw Hill *Texas Math*.

Adapts to the individual

ALEKS provides a personalized learning experience tailored to students' unique needs. It helps students identify their current knowledge level, pinpoint gaps in understanding, and focus on mastering concepts at their own pace.

Builds real mastery

ALEKS provides an individual learning pathway for each student that includes both instructional support and supplemental practice opportunities. TEKS mastery is maintained over time with periodic Knowledge Checks that reinforce learning.

Closes gaps and accelerates growth

Whether a student is working below grade level or ready to advance, *ALEKS* meets them where they are and targets the exact skills they need to grow. Students can progress faster than the pace of the core classroom when they're ready, empowering ownership of learning.

Flexible and empowering

Whether used in class, in tutoring, or at home, *ALEKS* is fully accessible and supports all learners through intuitive design and read-aloud options.

Actionable data and built-in tools

ALEKS includes powerful tools and insights to assess student learning and adapt instruction, including:

- Real-time reports
- Automatic assignment suggestions
- Data-driven grouping tools
- Support for differentiation and response to intervention

TEKS TEXAS MATH

Scan the QR code or visit **mhetexas.com/math** to learn more about McGraw Hill *Texas Math*.

McGraw Hill

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