

Math Skills for Accelerated Instruction in Grades 3–8 Math and Algebra I

Sirius Online Math Skills Review

Sirius helps accelerate learning with its unique Review Skills that are **free** with *Sirius Online* math courses. Let Sirius be part of your math RtI program with **data-based decision making**. Skills Review helps keep students on track and moving through the **on-grade level** course by identifying key prerequisite skills needing review or targeted interventions.

Skills Review is a mini-course with one **formative assessment** for each Readiness TEKS lesson.

- ✓ Each assessment includes two or three **key prerequisite skills** from previous grades.
- ✓ Each set of 6 exercises includes a **solved example** to remind students of the skill.

Students receive feedback and *Sirius Online* reports track performance and progress.

Implementing Skills Review

Math Skills are easy to use for **whole-classes, small groups,** and **individuals.**

Math Skills are **easy to use** in two ways:

- ✓ **Warm Up—Check for Readiness**
Identify students' needs for success in each Readiness Lesson.

Tier 1 — Strong performance (5 or 6 out of 6)

Tier 2 — Reinforcement likely needed (3 or 4 out of 6)

Tier 3 — Inadequate performance (1 or 2 out of 6)

For Tier 3 interventions, *Sirius Online* provides for free its previous grade level course.

- ✓ **Basic Skills Inventory—Screening Assessment**
Use the **Pre-Assess** to identify potential weaknesses. Assign selected Skills Review to confirm student needs. After teachers/tutors provide remediation, use the **Post-Assess** to confirm progress.

Identifying Inverse Operations Key Skill

Identify the operation you can apply to both sides of the equation to solve it.

Example Solved Example

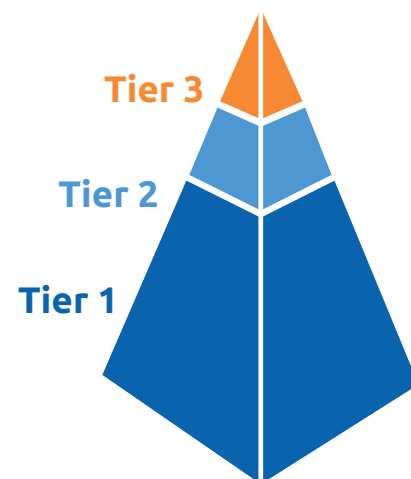
$x + 5 = 9$ The inverse of adding 5 is subtracting 5.

$x + 5 - 5 = 9 - 5$ **Subtract 5** from each side to solve for x .

$x = 4$

Choose the correct answer. 6 Exercises

- $10x = 20$
- $x - 7 = 14$
- $6 = x + 3$
- $4x = 20$
- $12 + x = 15$
- $3 = \frac{x}{5}$



*Learn more [here](#) about how *Sirius Online* closely mimics STAAR tools.

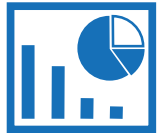
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Sirius Matches the New STAAR Redesign

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Sirius closely matches the STAAR tested **content** and **complexity**. Because STAAR assesses higher-order reasoning instead of low-level recall, Sirius promotes rigorous thinking with scaffolded TEKS instruction and authentic STAAR practice.

With Sirius, students learn exactly what they need to **know** and **do** on STAAR tests. And *Sirius Online* provides the same **tools** and **features** as the STAAR online platform, so students are familiar with them and **perform confidently** on test day!



Sirius Online Problem Solving (Zingers)

Problem Solving is based on our popular print math **Zingers** that helps ALL students become better—and more confident—STAAR problem solvers.

Each Problem-Solving lesson **engages** and **supports** students in solving the **most difficult** released STAAR test items. Each of the 24 lessons includes:

- ✓ **Guided Problem Solving** Students examine solutions and common mistakes.
- ✓ **Your Turn** Students then solve a similar test item with less scaffolding.
- ✓ **Extend Your Thinking** Students practice the key math skill in isolation.
- ✓ **Reflection** Students monitor and learn to be more aware of his or her thinking.



Easy to Use in Different Contexts

Use Problem Solving for **mixed-ability** classrooms. Both struggling and strong students will benefit from instruction and practice in solving **authentic** STAAR items.

- ✓ **Deliberate practice** in solving STAAR problems.
- ✓ **Retrieval practice** for spaced, cumulative, and/or mixed review.
- ✓ **Intensive preparation** in the weeks before the actual STAAR test.



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