For more than two decades, we have helped you achieve student success on Texas tests by providing the highest quality test-prep materials. With STAAR MASTER®, we continue our commitment to create research-based content that engages students and makes teaching easier.

The TEKS for mathematics have undergone significant changes, and we have revised our STAAR MASTER® Practice Tests for Math accordingly. The most prominent changes include:

- Reorganization of mathematics strands
- An all-new strand addressing “Personal Financial Literacy”
- An increased depth of understanding as to why and how mathematics processes work
Dear Texas Educator,

Since 1982, ECS Learning Systems has created quality K–12 teaching materials, training, and media. As a Texas-based publisher of the highest quality test-prep materials, we have always shared your commitment to lead your students to success on Texas tests—TEAMS, TAAS, TAKS, and now the STAAR®. With STAAR MASTER®, we continue our commitment to create research-based content that engages students and makes teaching easier.

The STAAR MASTER® series includes new, challenging content to prepare students for the rigor of the STAAR. It’s what you have come to expect from the most trusted source in Texas testing. Check our Web site often for the latest information at ecslearningsystems.com/staarmaster.

As you use STAAR MASTER® in your classroom, we hope to hear from you! Send us your story and let us know:

• Why you need our product(s)
• How you use them in your classroom
• What outcomes and results you are experiencing

At ECS, we strive to provide educators like you with easy-to-use and effective materials that make teaching easier. We count it as a privilege to have you as a customer, and we hope that our products continuously exceed your expectations.

Please let us know how well the STAAR MASTER® products worked in your classroom. Also, please spread the word—many of our new customers are referred by teachers like you.

Sincerely,

Your ECS Team

p.s. It’s easy to share your story! Visit our Re:Tell blog at ecslearningsystems.com/blog and click the Re:Tell button.

Overview of STAAR MASTER® Practice Tests

The STAAR MASTER® Practice Tests allow teachers to assess their students’ mastery of the curriculum standards tested on the State of Texas Assessments of Academic Readiness (STAAR®). Each Practice Test reflects the test structure and content outlined in the corresponding STAAR blueprint provided by the Texas Education Agency. Teachers can find the blueprint for each STAAR assessment at the agency’s Web site: http://www.tea.state.tx.us.

In particular, each STAAR MASTER® Practice Test includes—

• course-specific practice items based only on the eligible Texas Essential Knowledge and Skills (TEKS)
• the exact number of practice items specified in the blueprint for the corresponding test
• the correct number of practice items for both readiness standards and supporting standards, reflecting the ratio specified in test blueprints
• the appropriate number of griddable practice items (mathematics only)
• rigorous practice items that assess skills at a greater depth
Each STAAR MASTER® Practice Test Teacher Guide includes a correlation chart with pertinent information for each item in the test booklet.

**Correlation Chart Features:**
- complete answer key
- identification of the reporting category for each item
- standard(s) and expectation(s) tested in each item
- identification of readiness and supporting standards
- complexity level (Low, Moderate, High) of each item

### Answer Key

<table>
<thead>
<tr>
<th>Item</th>
<th>Answer</th>
<th>Category</th>
<th>Standard(s)</th>
<th>Readiness</th>
<th>Supporting</th>
<th>Complexity Level*</th>
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<tr>
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<td></td>
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<td>8.1F; 8.5G</td>
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<td></td>
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<td>8.1D; 8.1F; 8.5G</td>
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**English**
- Reading, Grade 3
- Reading, Grade 4
- Reading, Grade 5
- Reading, Grade 6
- Reading, Grade 7
- Reading, Grade 8
- Math, Grade 3
- Math, Grade 4
- Math, Grade 5
- Math, Grade 6
- Math, Grade 7
- Math, Grade 8

**Spanish**
- Reading, Grade 3
- Reading, Grade 4
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- Reading, Grade 6
- Reading, Grade 7
- Reading, Grade 8
- Math, Grade 3
- Math, Grade 4
- Math, Grade 5

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Mathematics
Grade 8
Form A

Name ___________________________ Date ___________________________
19. Katy placed the following numbers in order from least to greatest on a number line.

\[
\frac{9}{8}, \frac{\pi}{2}, \sqrt{3}, \sqrt{2}
\]

On which number line do the numbers appear correctly?

A

\[
\frac{9}{8}, \sqrt{2}, \frac{\pi}{2}, \sqrt{3}
\]

B

\[
\frac{\pi}{2}, \frac{9}{8}, \sqrt{3}, \sqrt{2}
\]

C

\[
\frac{9}{8}, \sqrt{3}, \frac{\pi}{2}, \sqrt{2}
\]

D

\[
\frac{9}{8}, \sqrt{2}, \sqrt{3}, \frac{\pi}{2}
\]

8.1D; 8.1F; 8.2D (L)

20. Juan deposits $1,500 into a savings account that pays 4.5% interest compounded annually. If Juan makes no deposits or withdrawals, how much money will be in his savings account after 3 years?

Record your answer in the boxes. Then fill in the bubbles. Be sure to use the correct place value.

\[
\begin{array}{cccccc}
\circ & \circ & \circ & \circ & \circ & \circ \\
\circ & \circ & \circ & \circ & \circ & \circ \\
\end{array}
\]

continued on next page
Revised for the Most Recent TEKS

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Reading • Mathematics • Writing • Social Studies • Science • Algebra I
English and Spanish versions

Credible
Same ECS quality
• based on most recent eligible TEKS and STAAR® test blueprints
• practice items marked with complexity level (L, M, or H)
• questions labeled with “skill tags”

Authentic
Reflects key characteristics of STAAR®
• increased rigor
• emphasis on readiness standards
• more open-ended (griddable) items (mathematics and science)
• assessment of process skills within context (mathematics, science, and social studies)

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• complete answer keys for teachers

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- Math, Grade 5
- Math, Grade 6
- Math, Grade 7
- Math, Grade 8
- Writing, Grade 4
- Writing, Grade 7
- Science, Grade 5
- Science, Grade 6
- Social Studies, Grade 8
- Algebra I

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- Math, Grade 5
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