



Scholastic Math
Inventory
College & Career

Software Manual

For use with SMI College & Career version 2.3.2 or later
and Scholastic Achievement Manager version 2.3.2 or later

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Introduction

Scholastic Math Inventory (SMI) College & Career is the latest version of the *Scholastic Math Inventory*. SMI College & Career is a computer-adaptive assessment that measures student math achievement and reports results based on the Quantile Framework[®] for Mathematics. This software manual explains *Scholastic Math Inventory* (SMI) College & Career and describes the student test-taking experience.

SMI College & Career works with Scholastic Central, the new teaching management system. Users upgrading from earlier versions of *Scholastic Math Inventory* will recognize Scholastic Achievement Manager (SAM) functions in Scholastic Central, along with many new, innovative features that will provide teachers with tools and resources needed for effective teaching and successful implementation.

Like SAM, Scholastic Central allows teachers and administrators to enroll students in Scholastic programs, customize program settings, schedule and run reports, and access education and professional development resources. Scholastic Central also takes student and class data from SAM and presents it in graphic, tabular, and dynamic ways to provide a detailed status of student performance and usage that is updated in real time.

For information on program settings in SMI College & Career and on generating SMI College & Career reports, see [Using Scholastic Central With SMI College & Career](#). For information on installing SMI College & Career software, see the [SMI College & Career Installation Guide](#). For other information, see the chart below. All manuals are available at the [Scholastic Education Product Support](http://www.scholastic.com/education/productsupport) website (www.scholastic.com/education/productsupport).

For information on:	Download this manual:
SMI College & Career program settings and generating SMI College & Career reports in SAM	Using Scholastic Central With SMI College & Career
Installing SMI College & Career software	SMI College & Career Installation Guide
Getting started with SAM and setting up accounts at the district and school levels	Getting Started With Scholastic Achievement Manager
Adding and enrolling students in SAM	Enrolling and Managing Students Using Scholastic Achievement Manager
SAM Resources	Using Resources in Scholastic Achievement Manager
Using SAM Connect	SAM Connect User's Guide
Using SAM services, functions, and data	SAM Data Management Manual
Using Scholastic Hosting Services	Scholastic Hosting Services User's Guide

Student Accessibility

SMI College & Career provides accessibility features that can enable some visually impaired students to use the application. The contrast setting, for example, will help a student who has trouble reading black text on a white background.

SMI College & Career does not provide textual equivalence to bitmap-rendered content. Students who are dependent on a Braille or text-to-speech device will be unable to use the application. Also, though closed captions are available for the hearing impaired, the application does not provide a description of the video, nor does it provide the closed-caption text in text format (it is available only as a display).

Browser-based accessibility features, such as screen and font magnifiers, are not tested by Scholastic and may not be compatible with SMI College & Career. Even in cases when the features may work with the program, the input focus is not set to allow students using screen magnifiers to follow the onscreen changes. Similarly, changing display settings may render the program unusable. Students needing to see larger text should use an external screen magnifier rather than change display settings or use a feature of the browser program.

Mac OS X and Windows operating systems, as well as Internet Explorer, Firefox, and Safari browser programs, offer a range of accessibility features that may enable users with disabilities to, among other things, perform basic navigation with a keyboard instead of a mouse by using the Tab key.

Overview

Scholastic Math Inventory (SMI) College & Career is an adaptive assessment that measures math achievement and growth from kindergarten to Algebra II, based on the Quantile Framework.

SMI College & Career has a bank of over 5,000 test items across the strands of mathematics as defined by the National Council of Teachers of Mathematics. The strands are: number and operations; algebraic thinking; pattern and proportional reasoning geometry; measurement and data; statistics and probability; and expressions and equations, algebra, and functions. Results are reported in both criterion-referenced and norm-referenced terms, indicating students' mathematical achievement levels on a universal scale as well as measuring their results against those of their peers.

SMI College & Career has three parts: the Early Numeracy Screener (kindergarten and Grade 1) or Fact Screener (grades 2 and higher), the Practice Test, and the SMI Scored Test. Upon completing the SMI Scored Test, students receive their Quantile® measures. Students' Quantile measures are automatically recorded in SAM. Teachers and administrators may view and use this data in Scholastic Central to evaluate student performance, monitor progress, identify student needs, and generate reports (for more information see [Using Scholastic Central With SMI College & Career](#) at the Scholastic Education Product Support website, www.scholastic.com/smi/productsupport).

SMI College & Career Assessments

SMI College & Career contains two types of assessments that cover kindergarten through Algebra II. Both assessments align to the Common Core State Standards. Students take only the assessment appropriate for their grade level.



Teacher Tip

Before students take the SMI test, review test-taking strategies and the format of the computer-based assessment for more accurate results. See the *Professional Learning Guide* for suggestions.

Logging In

Student Access Screen

Students are enrolled in SMI College & Career through Scholastic Achievement Manager (SAM). See [Enrolling and Managing Students Using Scholastic Achievement Manager](#) for detailed instructions on enrolling students.

Once students are enrolled in SMI College & Career, they may log in to the program through the Student Access Screen on the student workstation or mobile device. To open the Student Access Screen, open the workstation's browser program and use the Student Access Screen bookmark (see the [SMI College & Career Installation Guide](#) for help with bookmarking the Student Access Screen).



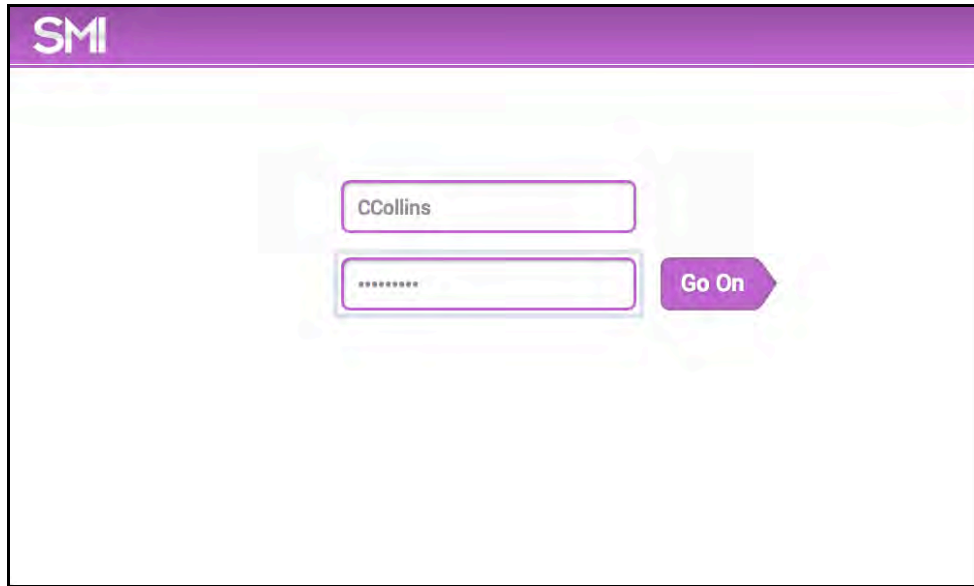
The Student Access Screen displays icons for all of the district's Scholastic products.

To open the SMI College & Career Login Screen, click the SMI College & Career icon at the bottom of the screen.

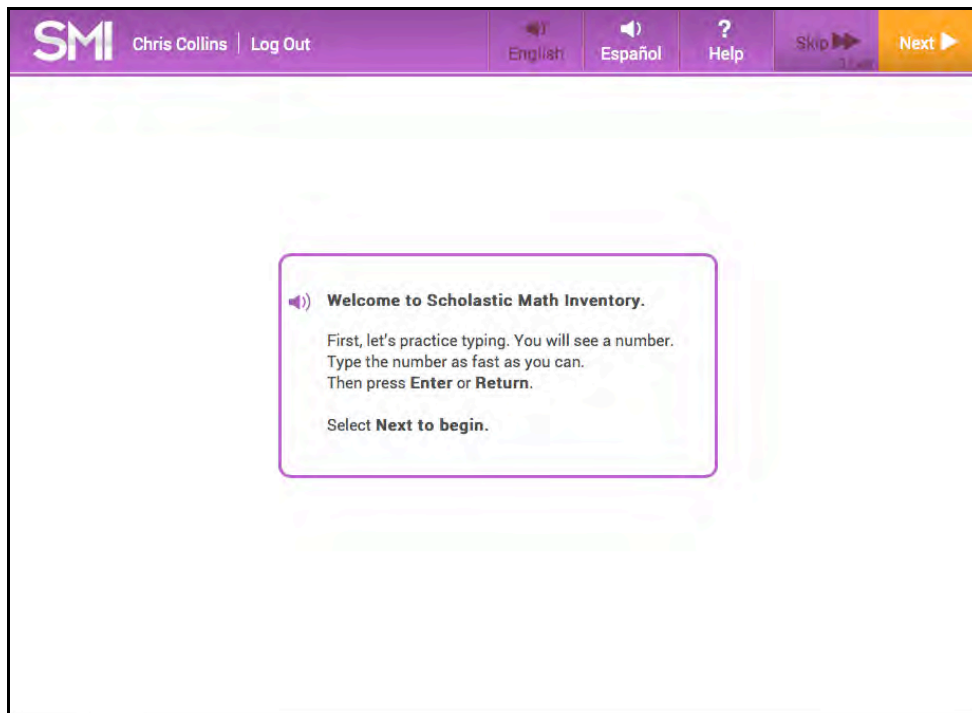


Students using SMI College & Career with *MATH 180* may also access SMI College & Career from the *MATH 180* access screen. Click the SMI College & Career icon to go to the Login Screen.

The Login Screen



From the Login Screen, students type their usernames and passwords and click **Go On** to start the test.

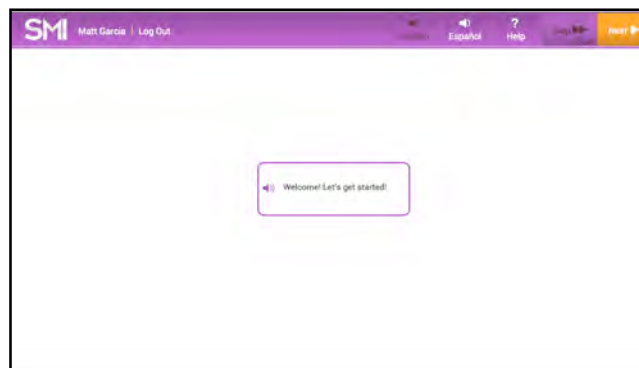


After students log in, they see an introduction screen that displays instructions for the part of the SMI College & Career assessment they are about to begin. The instructions are also read aloud. Click the speaker icon to hear the instructions read again. The screen also shows the basic commands that appear throughout the program:

- **English:** Click to have onscreen directions shown and audio directions read in English. This is the default setting.
- **Español:** Click to have onscreen directions shown and audio directions read in Spanish.
- **Help:** Click for audio help with using the program.
- **Skip:** Click to skip the question. Students may skip up to three questions in the SMI Scored Test; skipped questions do not count against a student’s score.
- **Next:** Click to go on to the next screen or question.

Students in kindergarten and Grade 1 see simpler onscreen instructions along with audio directions.

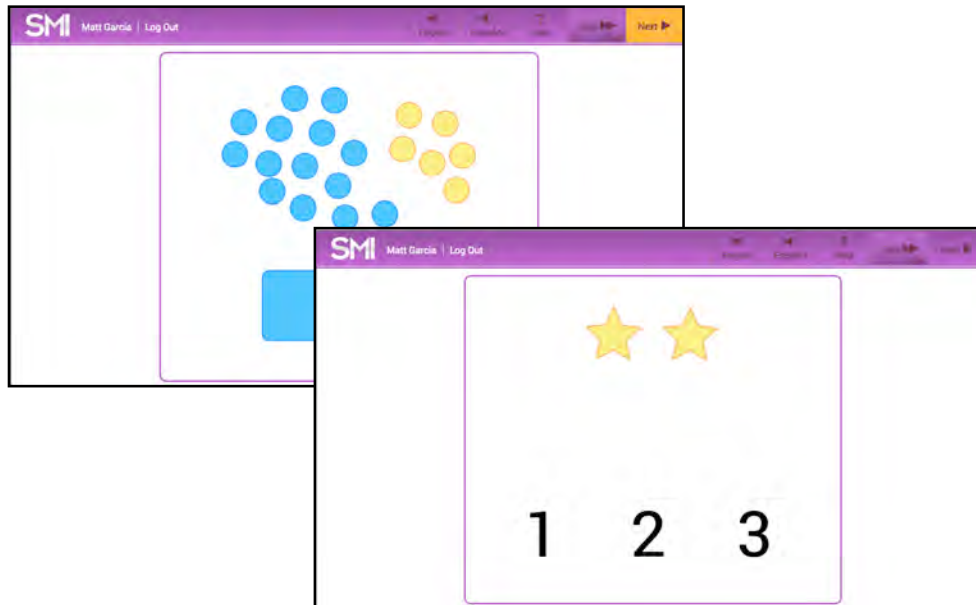
After reading the instructions, students click **Next** to go to their appropriate Screener.



Using SMI College & Career

SMI College & Career has three parts: the Early Numeracy Screener (kindergarten and Grade 1) or Fact Screener (Grades 2 and higher), the Practice Test, and the SMI Scored Test.

Early Numeracy Screener



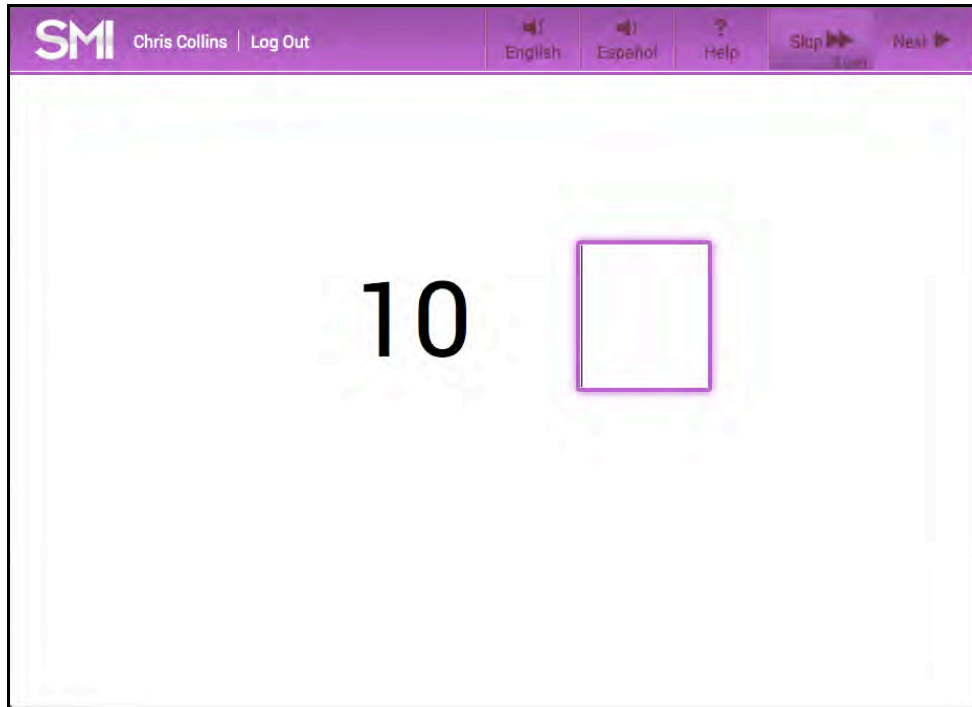
The Early Numeracy Screener asks students in kindergarten and Grade 1 to count and identify numerals and make quantity comparisons; it also measures students' ability to use the computer and pointer. It also includes simple instructions read aloud that explain the importance of answering the questions quickly to demonstrate fluency.

In the first part of the Early Numeracy Screener, students are asked to select the correct number of stars they see on the screen by clicking the number. In the second part of the screener, students are asked to choose which group of tiles contains more tiles by choosing the corresponding color's field at the bottom of the screen.

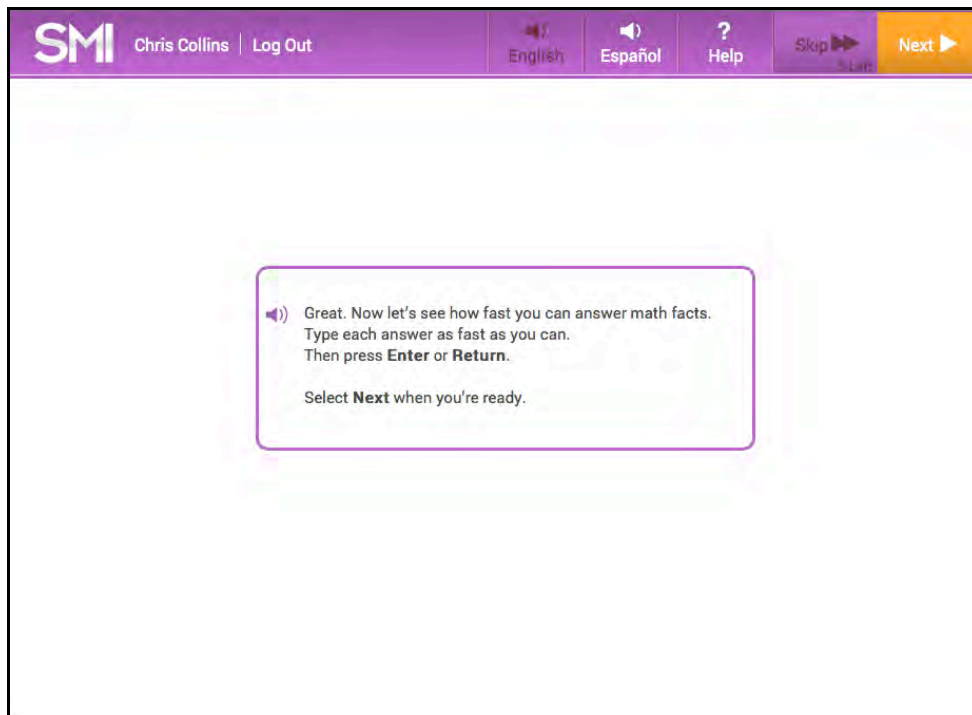
Students who do not score sufficiently on the Screener see a message to discuss their results with their teacher, who may then determine if the student should take the Early Numeracy Screener again.

Fact Screener

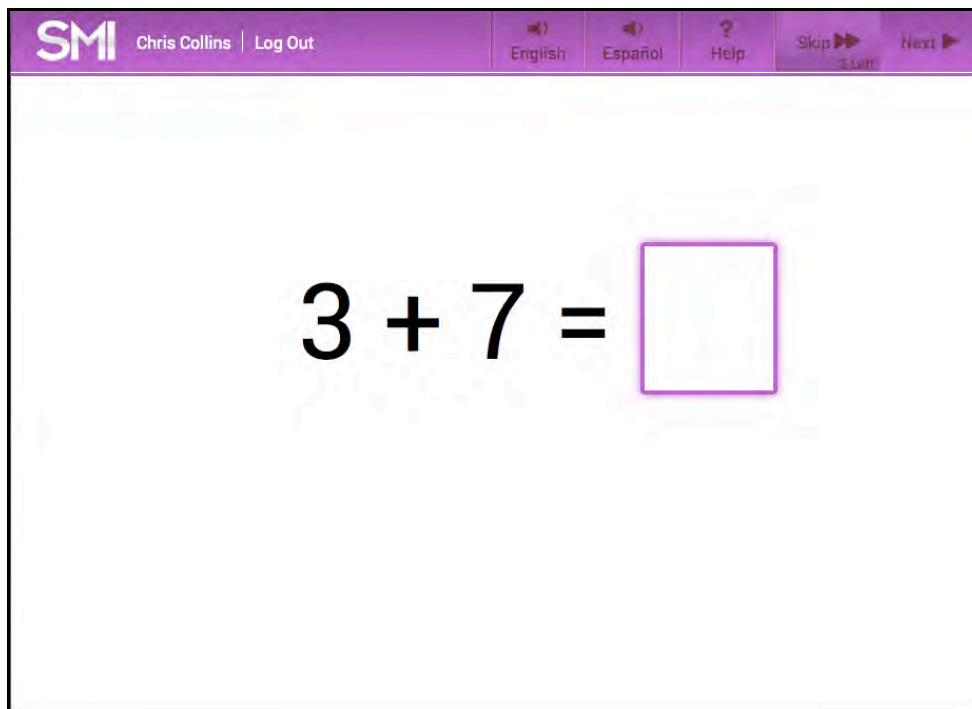
The Fact Screener identifies students in Grades 2 and higher who may need work on math fact fluency. It is made up of a Typing Warm-Up and an Addition Fact Screener, and students in Grades 4 and up also see a Multiplication Fact Screener. The Fact Screener also includes simple instructions, both written and read aloud, that explain the importance of answering math facts quickly to demonstrate fluency.



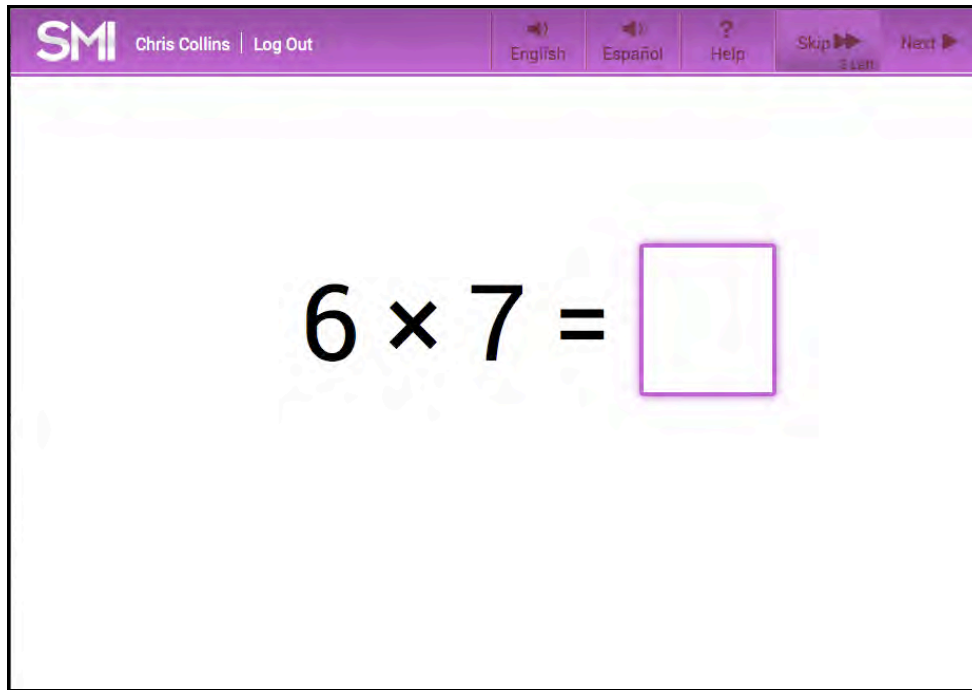
In the Typing Warm-Up, students practice typing numbers as fast as they can to get comfortable finding numbers on the keyboard or number pad and typing them quickly. Students are asked to type four numbers. After typing each number, they click **Next** to go on to the next number.



After finishing the Typing Warm-Up, students are instructed to move to the Addition Fact Screener and Multiplication Fact Screener.

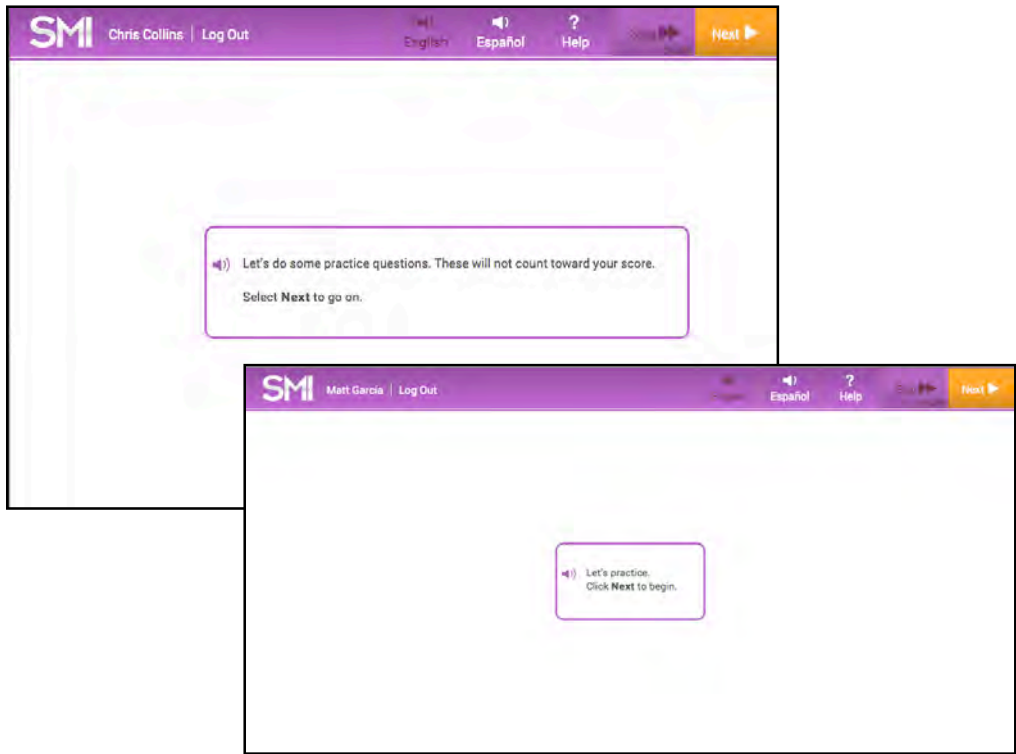


In the Addition Fact Screener, students answer 10 addition facts as quickly as they can. Students type an answer and click **Next** to go to the next fact.



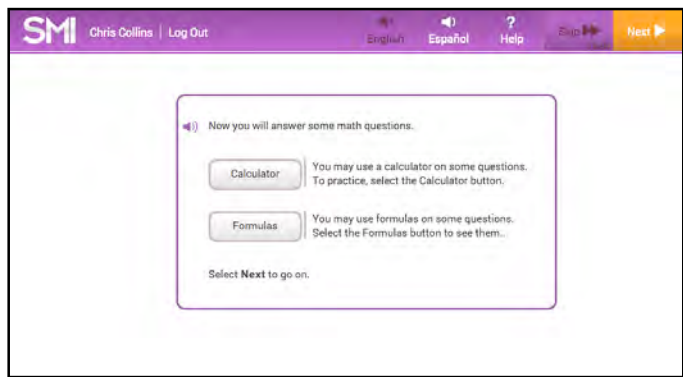
In the Multiplication Fact Screener, students in grade 4 or higher answer 10 multiplication facts as quickly as they can. Students type an answer and click **Next** to go to the next fact. After the last fact, clicking **Next** takes students to the Practice Test. The results of the Fact Screener are recorded in SAM. These results indicate which students may need work on fact fluency and which students are fluent on the tested facts in addition or multiplication.

Practice Test



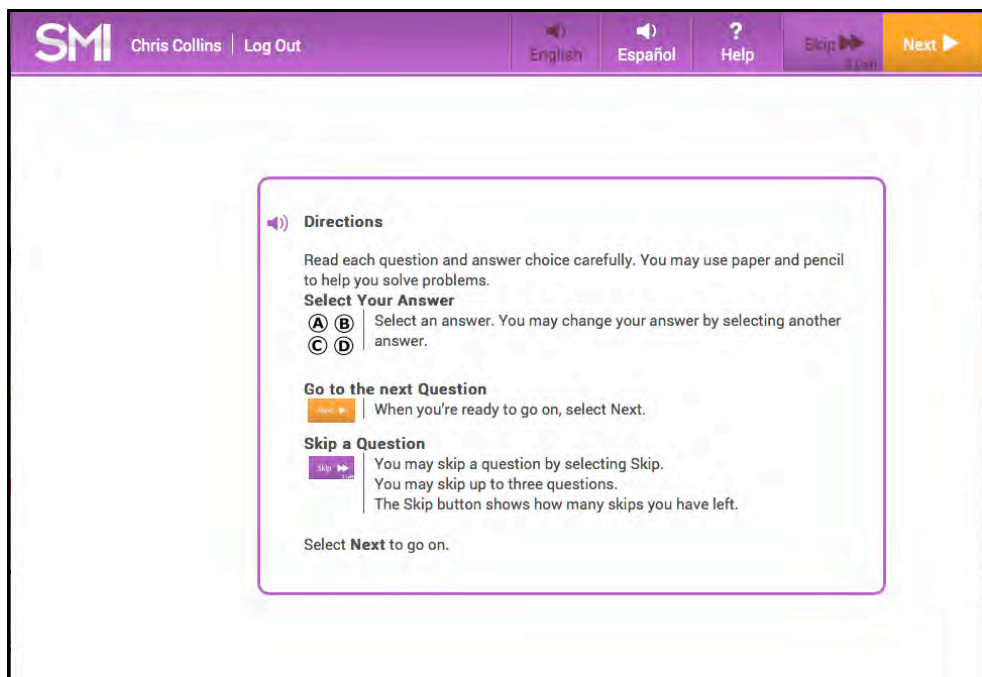
The Practice Test prepares students for the Scored Test by determining if students understand how to use the computer to answer questions. The Practice Test familiarizes students with the program, the calculator, and the SMI College & Career formula lists. Practice Test answers do not count toward students' final Quantile measures.

Students in Grades 3 and higher may practice using the calculator (page 20) by clicking the **Calculator** button and review the formulas (page 21) by clicking the **Formulas** button prior to beginning the Practice Test.



Teacher Tip

This screen is not visible if the district administrator has disabled the calculator and formula features.

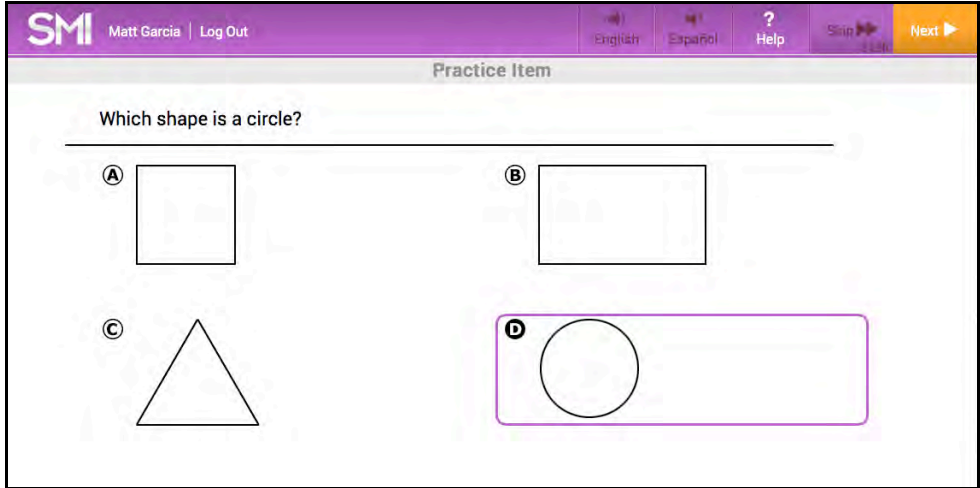
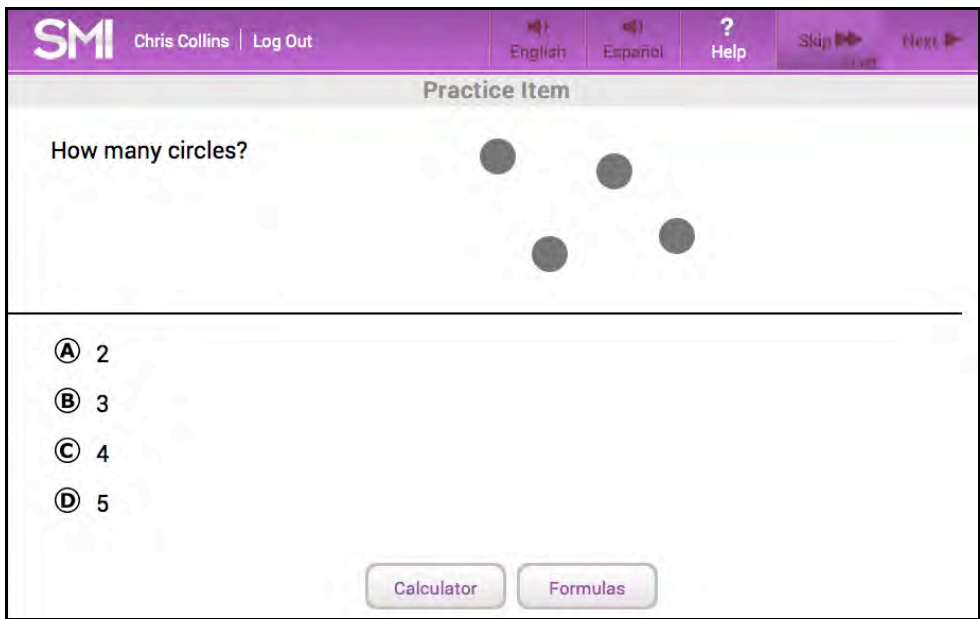


After clicking **Next**, students see an instruction screen that describes the basic functions of the assessment. The instructions are also read aloud. To disable the audio instructions, click the speaker icon.

Kindergarten and Grade 1 students receive only audio instructions.

To hear the audio instructions read aloud in Spanish, and see Spanish onscreen instructions, click **Español**.

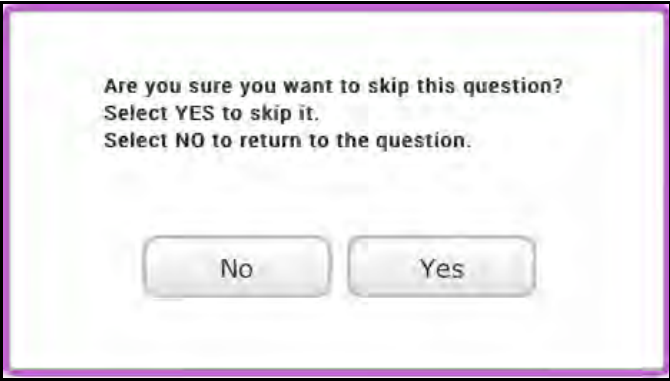
Click **Next** to move to the first question.



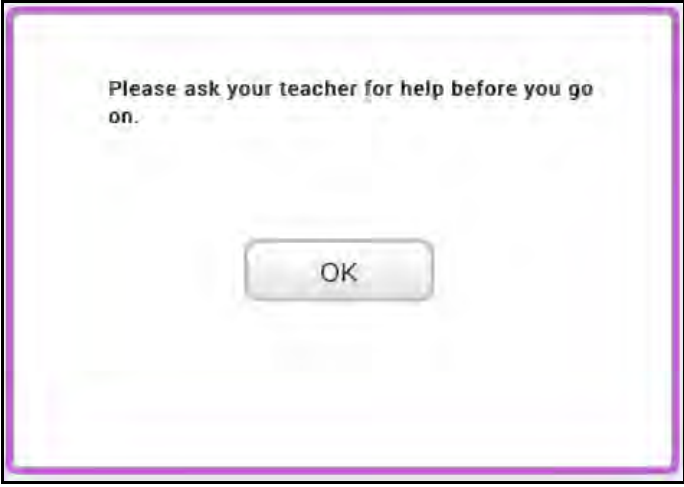
The Practice Test in both assessments consists of three to five questions. Practice Test questions are targeted to allow students to answer without difficulty. All questions are multiple choice, with four answer choices. To select an answer:

1. Click an answer from the list of choices to select it.
2. Click **Next** to record the answer choice and advance to the next question.

To change an answer, click a different answer choice before clicking **Next** or pressing Enter or Return. Students may not go back to a question to change the answer once they have submitted it.



Students may skip up to three questions in the Scored Test. Clicking **Skip** opens a confirmation screen. Click **Yes** to skip the question, or **No** to return to the test. The **Skip** button shows how many skips the student has left.



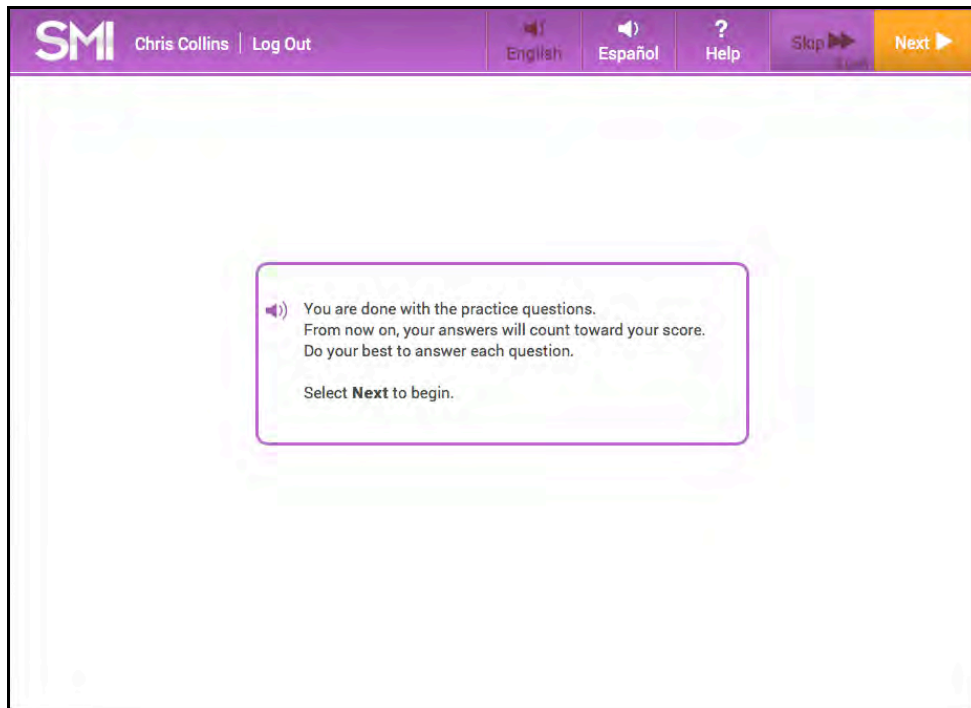
Students who answer any of the first three practice questions incorrectly see a message prompting them to seek help from their teacher. Students may be having difficulty navigating the keyboard, understanding the questions or the format of the test, or processing the instructions. Once teachers have addressed these or other issues, students may click **OK** to answer two more practice questions. Students may also log out of the Practice Test and return to it when they log back in to SMI College & Career.



Teacher Tip

Students see only the Practice Test the first time they take SMI, unless their program settings are set to show the Practice Test every time they take a new test. Students who need to pause the Practice Test may continue the test the next time they log in.

The Scored Test



When students finish the Practice Test, they are prompted to begin the Scored Test. Students are reminded that from this point all answers count toward the SMI College & Career score. Students click **Next** to begin the Scored Test or the speaker icon to hear the instructions again.

Students who answer a question incorrectly in less than five seconds see a message encouraging them to focus on the question.

SMI Chris Collins | Log Out English Eɣɣɪwɔl Help Skip 3 Left Next

Jake weighed some objects in his classroom to the nearest $\frac{1}{4}$ kilogram. He made a line plot of the weights.

Which is the total weight of the objects that weigh $\frac{3}{4}$ kilogram each?

(A) 4 kg
 (B) $3\frac{3}{4}$ kg
 (C) 3 kg
 (D) $2\frac{1}{4}$ kg

Formulas

The Scored Test consists of 25–45 questions across the mathematics strands: number and operations; algebraic thinking; pattern and proportional reasoning geometry; measurement and data; statistics and probability; and expressions and equations, algebra, and functions. SMI College & Career is adaptive and measures students’ responses as they move through the Scored Test. The Scored Test follows a strand profile based on grade, and students’ questions follow the profile. Each question’s difficulty level is based on whether the student has correctly or incorrectly answered the preceding question. As with the Practice Test, all questions are multiple choice, with four answer choices.

To select an answer:

1. Click an answer from the list of choices to select it.
2. Click **Next** to record the answer choice and advance to the next question.

Students may change an answer by clicking a different choice before clicking **Next** or pressing Enter or Return. They may not change a submitted answer. When students answer enough questions to determine a Quantile measure, the Scored Test ends.

Using the Calculator



SMI College & Career includes two types of onscreen calculators. The type of calculator provided depends on the difficulty of the question. Students see a four-function calculator for questions written for grades up to grade 5; for grades 6 and higher, students use the scientific calculator.

The calculator is not available for every question. On the Scored Test, the calculator is disabled for questions that measure students' calculation skill. Users with administrator permissions may disable the calculator for all SMI items or for all students in a school or district. Without the use of a calculator, students may find that problems are harder than expected, which may affect the student score.

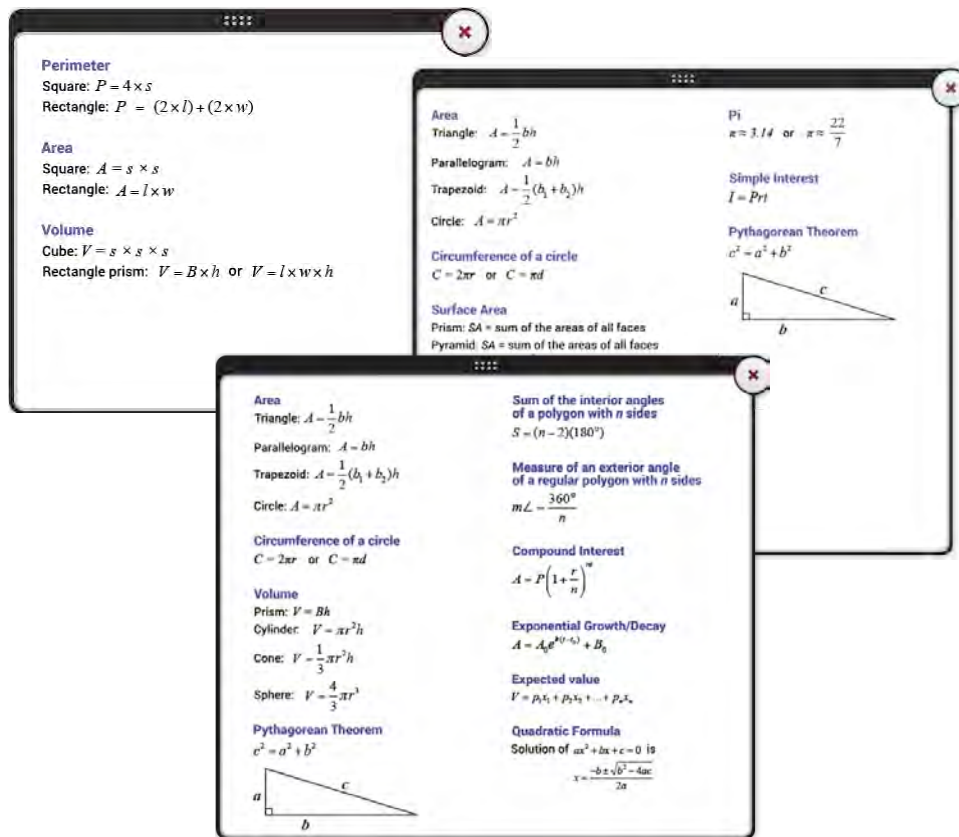
Students may practice using the calculator before and during the Practice Test.

To open the calculator, click the **Calculator** button in the lower center part of the screen, or use the keyboard by following these steps:

1. Press the Tab key to activate the keyboard selection process, and highlight the calculator.
2. Press the Space Bar to open the calculator.
3. Click the "X" icon on the calculator to close it.

Students may use the calculator with the mouse, or the computer's keyboard and number pad.

Using the Formulas



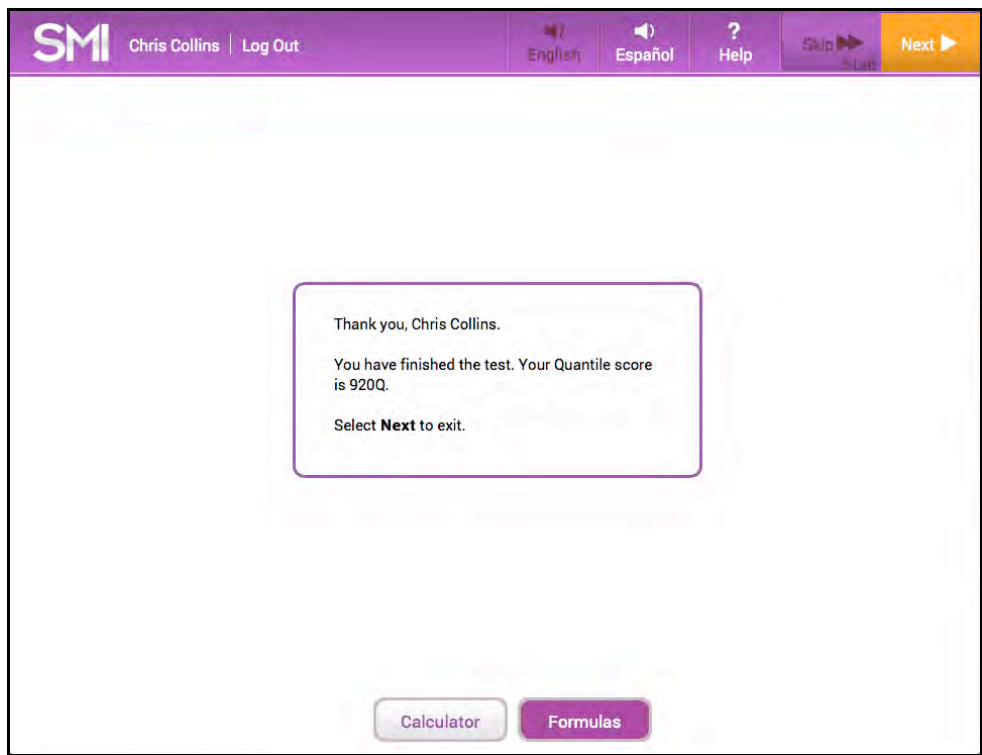
SMI College & Career includes three types of onscreen formula lists that contain useful formulas. The type of formula list provided depends on the difficulty of the question. Students see a basic formula list for questions written for Grades 35; for Grades 6–8 students see a more detailed list, and students in Grades 9 and higher see a still more detailed formula list.

Users with administrator permissions may disable the formulas for all SMI items or for all students in a school or district. Without referring to formulas when appropriate, students may find that problems are harder than expected, which may affect the student score.

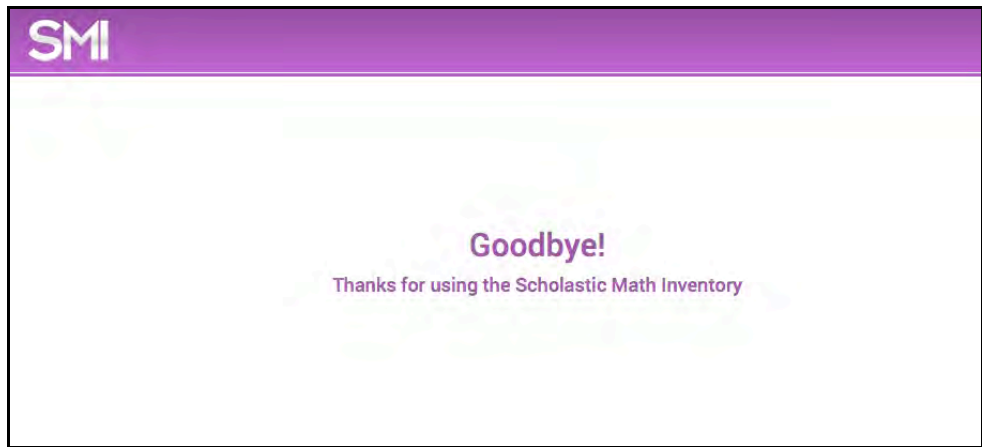
To open the formula lists, click the **Formulas** button at the lower part of the screen, or use the keyboard by following these steps:

1. Press the Tab key to activate the keyboard selection process and highlight the **Formulas** button.
2. Press the space bar to open the formulas.
3. Click the “X” icon on the formula list to close it.

Completing the Test and Exiting SMI College & Career



When students complete the Scored Test, the program displays a Quantile measure for that student. To exit the program, click **Next**.



This closes SMI College & Career, and students' scores are recorded in SAM and shown in Scholastic Central.



Teacher Tip

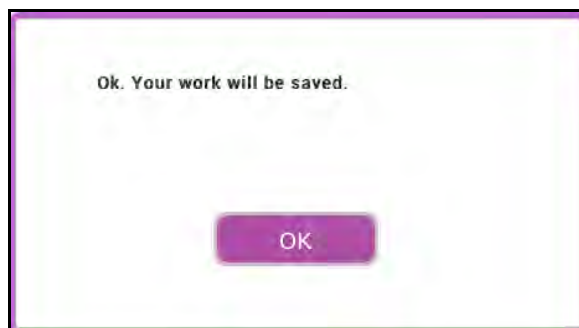
Use the SMI College & Career Program Settings in SAM to disable displaying Quantile measures onscreen. See [Using Scholastic Central With SMI College & Career](#) for more information.

Saving and Returning to the Scored Test

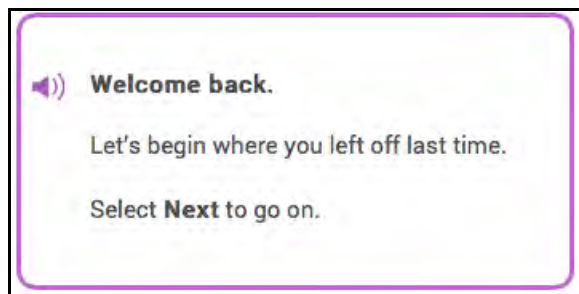
Students who must interrupt their Scored Tests may do so by clicking **Log Out**.



This opens a confirmation window. Students who click **No** return to their work. Students who want to save their results and continue the test at their next login click **Yes**.



Click **OK** from the next screen to exit SMI College & Career.



At next login, students see a screen reminding them that they are starting from the point they at which they exited at their last login.

SMI College & Career Mobile Access

SMI College & Career is fully compatible with mobile devices that have either Safari or Google Chrome installed.

Teachers and students may access the SMI College & Career student software either through Safari or Chrome, or by downloading and configuring the SMI College & Career app.

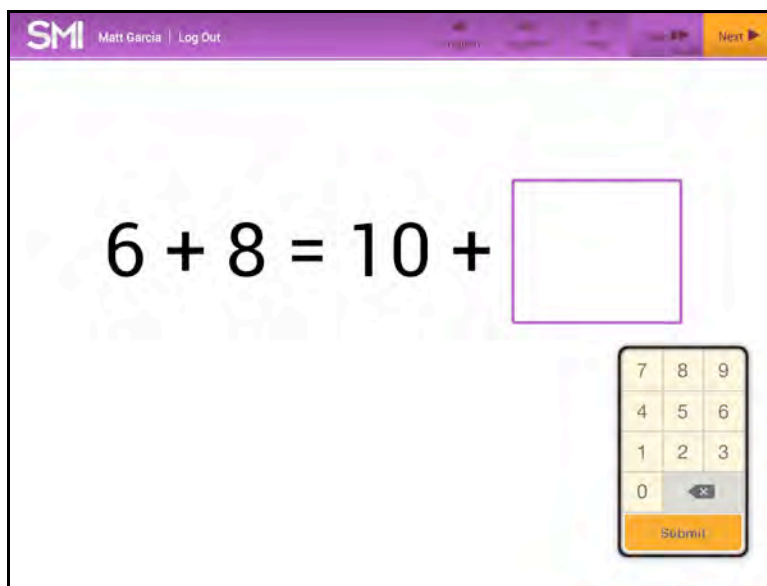
Accessing SMI College & Career With Safari or Google Chrome

To access SMI College & Career using Safari or Chrome, open the browser and enter the SAM Server URL or Scholastic URL in the address field, then tap Go from the keyboard. This will open the Student Access Screen (page 6). Tap the SMI College & Career icon from the Student Access Screen to move to the login screen (page 8).

Mobile Device Functionality

SMI College & Career functions identically on a workstation or mobile device, with the exception that users tap buttons and links on the user interface, rather than use a mouse or pointer as they do on workstations.

Number Pad



In the Fact Screener (page 11) a number pad appears onscreen in the mobile app. Tap the numbers to enter an answer, then tap Submit to move to the next question.

To move the number pad, tap and drag it to a different part of the screen.

Downloading and Configuring the SMI College & Career App

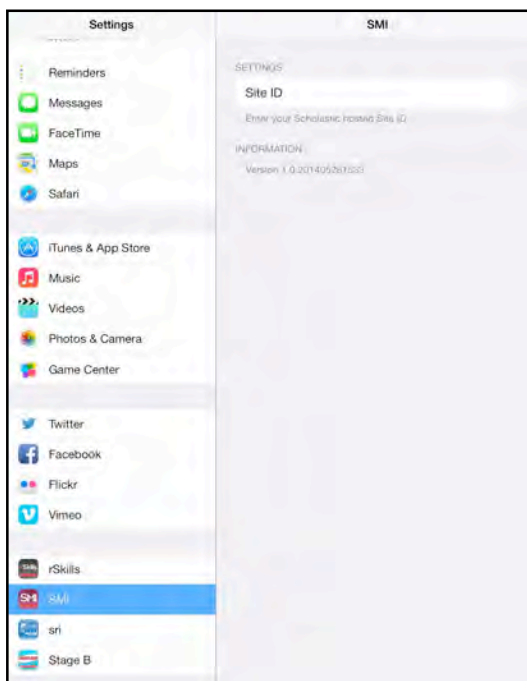
To download and access the SMI College & Career app, devices must meet the following requirements:

- iPad 2 or later
- iOS version 7.0 or later
- Headphone recommended (available separately)

When these requirements are met, download the SMI College & Career app from the iTunes App Store.



Prior to opening the app, tap the **Settings** icon on the iPad Home Screen.



Tap the **SMI** link from the Settings menu.

In the Site ID field, enter the host ID if the district's SAM Server is hosted by Scholastic. The host ID is the number that starts with h1 followed by eight digits in the SAM Server URL:

- SAM Server URL:
<http://h100000000.education.scholastic.com/ScholasticCentral>
- Host ID: h100000000

If the district SAM Server is locally installed, enter the server URL in the Site ID field:

- [http://\[SAM Server Name or IP Address\]:55880](http://[SAM Server Name or IP Address]:55880)

SAM Server URL information is also available from the district SAM administrator.

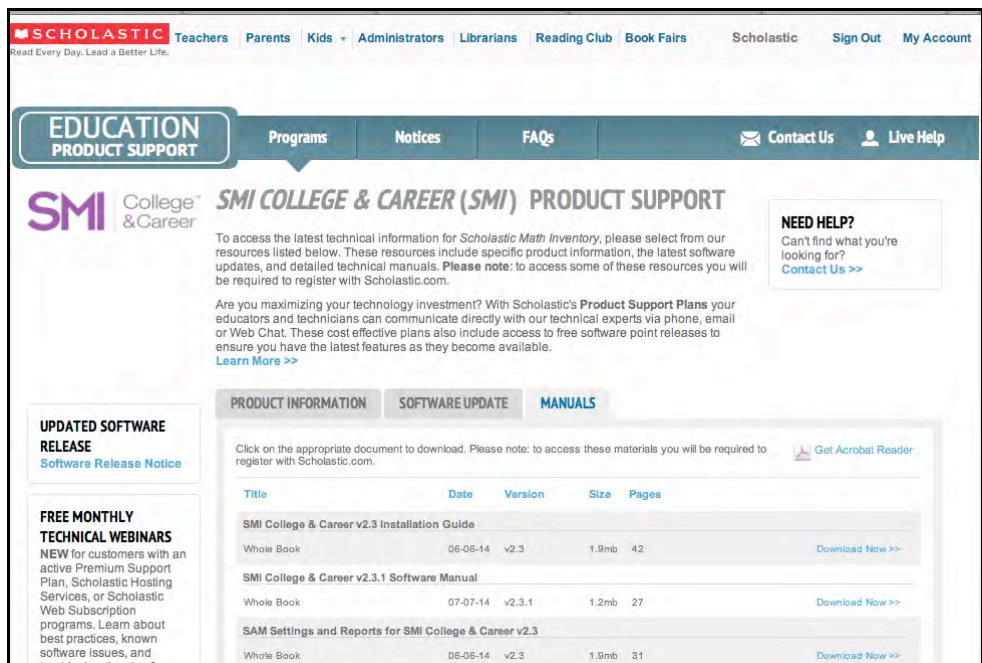
Press the Home button to return to the iPad Home Screen. Tap the app to open it and move to the SMI College & Career login screen (*page 8*).

Guided Access

Guided Access is an iOS function that allows users to modify their device settings. Teachers and administrators may use Guided Access to control which iPad functions and buttons are enabled or disabled for student use. For more information on accessing and using Guided Access, see the *[iPad User Guide](#)* available at www.apple.com.

Technical Support

For questions or other support needs, visit the [Scholastic Education Product Support](http://www.scholastic.com/smi/productsupport) website at www.scholastic.com/smi/productsupport.



At the site, users will find program documentation, manuals, and guides, as well as Frequently Asked Questions and live chat support.

For specific questions regarding the Scholastic program suite, contact customer service to speak to a representative for each Scholastic Education program at:

- 1-800-283-5974 (all Scholastic Education technology programs)
- 1-800-927-0189 (other versions)

For specific questions about using SAM with your Scholastic programs, click **Help** in the Quick Links section along the top of any screen in SAM.