

# **Virginia**

## **Standards of Learning Guided Practice Suggestions**

### **VMAST**

#### **Virginia Modified Achievement Standards Test**

**For use with the VMAST Grade 8 Mathematics  
Practice Items in TestNav™ 8**

**September, 2016**

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## Overview

The Virginia Modified Achievement Standards Test (VMAST) is intended for students with disabilities who are being instructed in grade level content but are not likely to achieve proficiency in the same time frame as their non-disabled peers. According to the United States Education Department's (USED) guidance, tests designed to measure modified achievement standards must address grade level content but may be less rigorous than the tests administered to regular education students. In the VMAST mathematics assessments, research-based supports and simplifications identified by Virginia educators have been applied to existing online mathematics items to make them more accessible for students with disabilities.

The VMAST practice items give students the opportunity to practice using supports and simplifications which may be found on an actual VMAST test. Additionally, these items illustrate the technology-enhanced item (TEI) types. These practice items do not cover all of the content assessed on the VMAST Grade 8 Mathematics Test and should not be used in place of review for the VMAST test content.

This practice guide may be used by teachers or other adults to guide students through the VMAST practice items for grade 8 mathematics. While the use of this guide with the practice items is not required, it is strongly encouraged, as it will help ensure that students are familiar with the types of items that they may encounter while taking the VMAST Grade 8 Mathematics Test. The directions in the guide will also lead students through practice with the online tools, familiarize students with how to navigate through the test, and provide practice with using the Section Review Screen within TestNav.

Prior to guiding students through the VMAST practice items, carefully read this practice item guide and review the practice items to become familiar with the items and the supports and simplifications. While these VMAST practice items will not be scored in TestNav, the correct answer for each question is provided as the item is reviewed in the guide.

All associated VMAST resources are available at

[http://www.doe.virginia.gov/testing/alternative\\_assessments/vmast\\_va\\_mod\\_achievement\\_stds\\_test/index.shtml](http://www.doe.virginia.gov/testing/alternative_assessments/vmast_va_mod_achievement_stds_test/index.shtml)

The following Change Log indicates any updates to this document.

## Change Log

Updates to this document will be reflected in the table.

Change Log		
Version	Date	Description
V.1	9/16/2016	Original Document Posted

## ***Introduction to TestNav™ 8: MC/TEI Document***

The [Introduction to TestNav 8: MC/TEI](#) document serves as an introduction to the new online navigation, tools, accessibility features, and overall functionality and appearance of TestNav 8. It is highly recommended that teachers (or other adults) read the *Introduction to TestNav 8: MC/TEI* document prior to reading this guide, the *Guided Practice Suggestions* for the Grade 8 VMAST Mathematics practice item set.

Reading the *Introduction to TestNav 8: MC/TEI* document will give teachers an understanding of the features of TestNav 8 prior to working with students. In part, the document provides information on:

- opening the practice item sets within the required TestNav 8 Application,
- navigating through the practice item sets,
- answering technology-enhanced items (TEI) and multiple-choice items,
- using the online tools, and
- using the accessibility features available in TestNav 8.

This important information should be used in conjunction with the information found in this guide.

### **Guided Practice Suggestions**

This guide provides specific item information for each question in the VMAST Grade 8 Mathematics practice item set in table format. Along with the item information in the table, there is a column titled “Guided Practice Suggestions.” This column contains information for teachers as they guide students through the practice items. For instance, guided practice suggestions can state, “Use the eliminator tool to place a red ‘X’ on the answers that are not correct,” or, “Make sure students know how to select draggers and place them in the empty boxes using their mouse, keypad, or touchscreen.” Following the suggestions in the table will ensure that students are exposed to all of the different tools within TestNav 8, the different functionality features of TEI, and the common messages that may appear as students complete TEI.

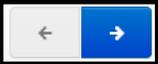
## **PROVIDE ACCOMMODATIONS**

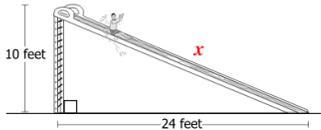
If a student's Individualized Education Plan (IEP) includes accommodations, those accommodations should be provided during administration of the VMAST practice items. If a student's accommodation includes an audio assessment, the audio practice items can be used with the student. The directions in this guide will need to be adjusted by the teacher or adult administering the practice items.

## **BE PREPARED TO ANSWER STUDENTS' QUESTIONS DURING THE VMAST PRACTICE ITEMS**

If a student asks a question while using the VMAST practice items, it is acceptable to give assistance. You may answer students' questions referring to the mechanics of testing, such as how to navigate to the next question or how to use a specific tool. Because these are practice items, the content of the practice questions also may be discussed.

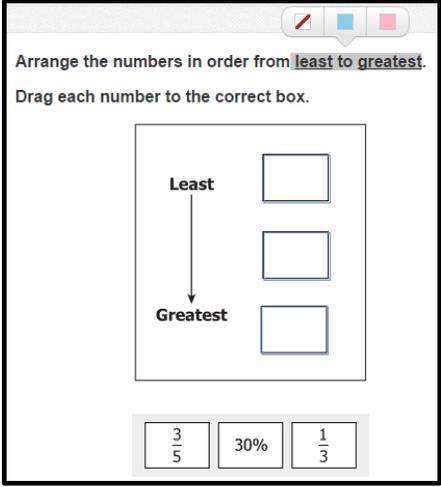
## VMAST Grade 8 Mathematics Practice Item Information and Recommended Guided Practice Suggestions

Question	Item Type	Answer Key	Guided Practice Suggestions
1	MC	A 20	<p>Throughout the practice item set, move to the next or previous screen in a section by selecting an arrow in the top left corner of the screen. An arrow with a blue background indicates the button is active and can be selected.</p> <div style="text-align: center;">  </div> <p>Question 1 contains a “Hint” box located to the right of the question. Hint boxes have information that may assist students in answering the question. Students should always read the information in a hint box. This hint box says, “Select and drag the values of <math>a</math>, <math>b</math>, and <math>c</math> into the correct places in the expression. Then select your answer.”</p> <p>Also notice that there is color in this item. Students will notice color throughout many of the VMAST items.</p> <p>Have students select and drag the value of the variables into the expression. Students should use their scratch paper and calculator to help them find the value of the expression. Students must then select their answer. Multiple-choice items must be answered in TestNav 8 by selecting the letter of the answer option or the option itself using the mouse, keypad, or touchscreen. On multiple-choice items, once an answer is selected, the item cannot be returned to an unanswered state (i.e., no answer selected) unless the student uses the eliminator tool to place an “X” over the selected answer and then selects the “X” again to remove it.</p> <p>Information for teachers: If a student’s IEP provides for a read-aloud accommodation, then all questions should be read to the student.</p>

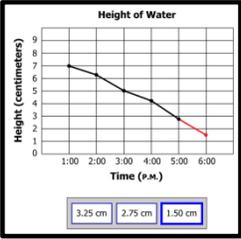
Question	Item Type	Answer Key	Guided Practice Suggestions
2	MC	B 26 ft	<p>Question 2 also contains a hint box. This hint box says, “Use this formula to solve this problem.” A diagram and a formula are included in the hint box.</p> <p>Formulas from the Grade 8 formula sheet needed to solve a problem will be included within the item, so students will not need a formula sheet for this practice set or for the VMAST test.</p> <p>Have students select the eliminator tool located in the toolbar. Then have them place a red “X” on the answers that are not correct.</p>  <p>When a tool in the toolbar is active, it will be dark gray. In the picture above, the pointer is active.</p> <p>To remove an “X,” keep the eliminator tool active and select the “X” to remove it. Have students practice removing an “X.”</p> <div style="border: 1px solid black; padding: 5px;"> <p>This water slide is one side of a right triangle, as shown.</p>  <p>What is <math>x</math>, the length of the water slide?</p> <p><input checked="" type="radio"/> A. 14 ft</p> <p><input checked="" type="radio"/> B. 26 ft</p> <p><input checked="" type="radio"/> C. 24 ft</p> <div style="border: 1px solid gray; padding: 2px; width: fit-content; margin-top: 5px;"> <p><b>Hint:</b> Use this formula to solve this problem.</p>  <p><math>a^2 + b^2 = c^2</math></p> </div> </div>

Question	Item Type	Answer Key	Guided Practice Suggestions
2 (Cont.)			Information for teachers: Remind students that placing an “X” on the incorrect answer choices does not complete the item. A selection must be made with the pointer tool in order for the item to be considered “Answered.”

Question	Item Type	Answer Key	Guided Practice Suggestions
3	TEI Drag and Drop	<p>Answers should be in the following order from top to bottom (Least to Greatest):</p> <p>30%,  <math>\frac{1}{3}</math>,  <math>\frac{3}{5}</math>.</p>	<p>For question 3, have students select draggers and place them in the empty boxes using the mouse, keypad, or touchscreen.</p> <p>As soon as a dragger is selected and moved, each receptacle box turns blue and is outlined by a dotted line. This indicates that the dragger can be placed in any box—whichever location the student chooses as the correct location.</p> <p>Selecting a dragger and moving it to the empty box may cause the remaining draggers to shift location in the answer option area.</p> <p>On some items the gray box will decrease in size when a dragger is removed. However, the gray box will expand to accept the dragger once the dragger is placed back over it.</p> <p>Have students practice moving draggers back to the gray box. Draggers will go back to their original location when returned to the gray box.</p> <p>Have students try to place one dragger “over” another dragger, to show how the top dragger will return to the gray box. If a student wishes to change an answer, the dragger must be moved back to the gray box and another option must be selected and moved into the response box.</p> <p>This item will not be considered “Answered” until each box has an answer in it.</p> <p>Tell students that they must read questions carefully because sometimes the specific location or order of the answers matters. Other times, the location or order of the answers does not matter.</p>

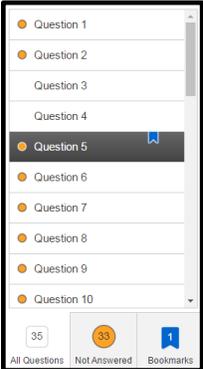
Question	Item Type	Answer Key	Guided Practice Suggestions
3 (Cont.)			<p>Question 3 cont.</p> <p>Have students use the highlighter tool to highlight <u>least to greatest</u>.</p>  <p>To highlight using a keyboard, place the cursor next to “least,” left click, hold down, and drag over the text. Then select the highlighter color.* To remove the highlight, left click, hold down, and drag over the text. Then select the white box on the left with the red line.</p> <p>On a touchscreen, hold down on the text with a finger, and adjust the area to be highlighted with the blue anchors. Then select the highlighter color.* To remove the highlight, hold down on the text with a finger, then select the white box on the left with the red line.</p>

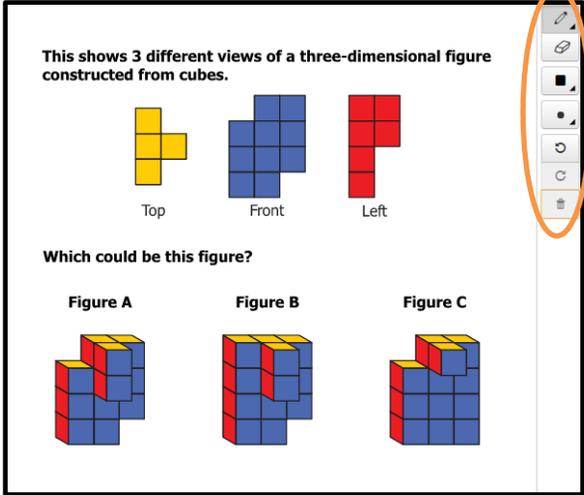
Question	Item Type	Answer Key	Guided Practice Suggestions
3 (Cont.)			<p>Question 3 cont.</p> <p>On a touchscreen, the following message may appear when students highlight text.</p> <div style="border: 1px solid black; padding: 2px; margin: 10px auto; width: fit-content;"> <span>Copy</span> <span>Define</span> <span>Share...</span> </div> <p>In the practice items, selecting one of the options listed will open a new window and direct students to the internet. This will not occur in the actual testing environment; selecting an option will not direct the students to another screen.</p> <p>*Pink and blue are the two highlighter colors available when the foreground and background settings are set to the default (black text on white background). These colors may change when the foreground and background setting is changed.</p> <p>Practice with changing the foreground and background colors is included on a later question in this practice item set.</p> <p>Tell students that the highlighter tool will only work on text. It will not work on art (images/pictures).</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
4	TEI Hot Spot	<p>1.50 cm</p> 	<p>Question 4 contains a hint box. This hint box says, “Select each answer choice to extend the graph. Then select your answer.” Have students use their mouse, keypad, or finger if using a touchscreen device, and select the answer option 3.25. Students will see a red point appear at 6:00 p.m. on the horizontal axis and at 3.25 cm on the vertical axis of the graph. They will also see a red line segment that will extend from the last point on the black line segment to the red point.</p> <p>Have students select answer options 2.75 cm and 1.50 cm. They may use the eliminator and highlighter tools as they consider the options and make a choice.</p> <p>Have students select the eliminator tool located in the toolbar and then place a red “X” on the answers that are not correct.</p> <p>To remove an “X” keep the eliminator tool active and select the “X” to remove it. Have students practice removing an “X.”</p> <p>Remind students that placing an “X” on the incorrect answer choices does not complete the item. A selection must be made with the pointer tool in order for the item to be considered “Answered.”</p>

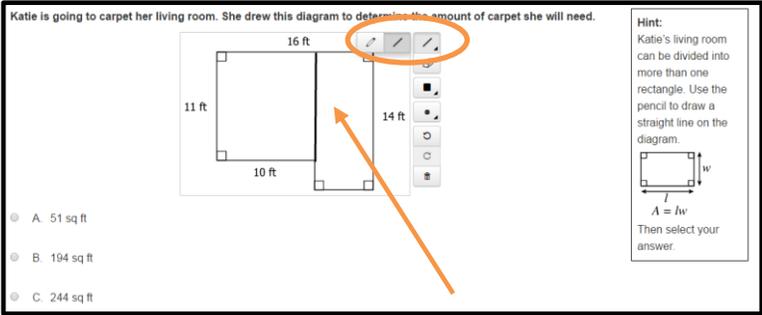
Question	Item Type	Answer Key	Guided Practice Suggestions
4 (Cont.)			<p>Question 4 cont.</p> <p>Tell students that this item will be considered “Answered” once a height is selected.</p> <p>If the student wishes to change an answer, he/she should select another height or use the eliminator tool to remove the answer.</p> <p>Information for Teachers: Please tell students If the eliminator tool is used to remove an answer, the line will remain on the graph until another height has been selected and the item will appear as “Unanswered” on the Review screen.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
5	TEI Fill-in-the-Blank	4	<p>Question 5 is a Fill-in-the-Blank item with a response box. Have students attempt to enter a character that cannot be used as part of the answer. A message will appear that states:</p> <p style="text-align: center;"><b>You cannot use that character.</b></p> <p>This message will remain on the screen for approximately three seconds.</p> <p>Tell students that the answer does not need to be as long as the response box.</p> <p>Students may use the backspace key or the delete key on the keyboard to clear an answer. To use the backspace key, put your pointer tool after the last number you typed and press the backspace key to clear it. To use the delete key, place the pointer in front of the numbers you want to clear, and then press “delete” to remove each number one at a time. If students are using a touchscreen device, they should use their finger to select the number in the box and then double tap to make the keyboard appear. Students will then use the delete key to remove the numbers. </p> <p>For fill-in-the-blank questions such as this, once any character is entered into the response box, the question will show as “Answered” on the Review screen.</p> <p>Information for teachers: The decimal point is an allowable character for this particular item. Therefore, if a student entered 4.0 or 4.00 the answer would also be correct.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
5 (Cont.)			<p>Question 5 cont.</p> <p>Have students select the <i>Bookmark</i> button and tell them that when they select the <i>Bookmark</i> button, it will turn dark gray. This button would be used to mark a question for review at a later time.</p>  <p>Then have students select the <i>Review</i> button. A drop-down menu will appear. All of the questions in the current section will be listed. The question that the student is viewing on the screen will be shaded dark gray. This question in the picture has an orange circle next to it because it has not yet been answered. This question will also have a blue flag next to it because it was just bookmarked.</p>  <p>Have students practice using the scroll bar to see the status of each question in the drop-down menu.</p> <p>Have students close the <i>Review</i> drop-down menu and deselect the <i>Bookmark</i> button. Then, tell them to look at the <i>Review</i> drop-down menu again to see that the question no longer has a blue flag.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
6	MC	A Figure A	<p>Question 6 has the Drawing Interaction Tool. The Drawing Interaction Tool is a boxed area that exists on certain mathematics questions. The pencil may be used to make marks, notations, straight lines, or dots on or around artwork or graphs inside the Drawing Interaction area. The student selects the specific tool he/she wants to use and uses it to help answer the question.</p>  <p>The top tool is the pencil or straight line tool. The arrow in the bottom right corner expands the tool so a student may select free draw or the straight line.</p>  <p>A dot may be placed if a student uses his mouse, keypad, or touchscreen. The student would select free draw and use his mouse or keypad to click and release to place a point. If using a touchscreen, the student should use his finger to place a point.</p>

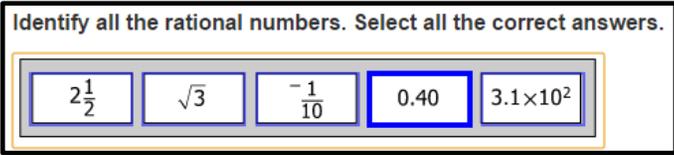
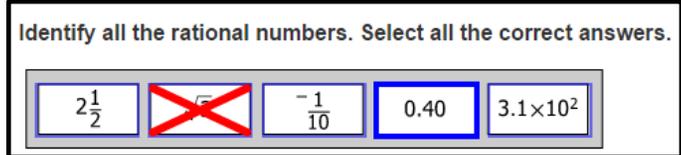
Question	Item Type	Answer Key	Guided Practice Suggestions
6 (Cont.)			<p>Question 6 cont.</p> <p>The second tool is used to erase selected lines, markings, or writing.</p>  <p>The third tool allows the markings to be black or green. The arrow in the bottom right corner expands the tool so a student may select the color.</p>  <p>The fourth tool allows the students to select the thickness of the markings. The arrow in the bottom right corner expands the tool so a student may select the size.</p>  <p>The fifth and sixth tools are used to Undo or Redo the most recent markings.</p>  <p>The last tool allows all markings to be eliminated at the same time.</p>  <p>Have students practice marking on the figures and removing the marks made to help answer the question.</p> <p>Students must select the correct answer using the answer options below the Drawing Interaction Tool.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
7	MC	B 194 sq ft	<p>Question 7 contains a hint box. This hint box says, “Katie’s living room can be divided into more than one rectangle. Use the pencil to draw a straight line on the diagram. Then select your answer.” A diagram and a formula are included in the hint box.</p> <p>Have students select the pencil (the first tool) and select the straight line. Students may use the straight line to divide the figure into two rectangles. Students should select the location on the figure where they want to begin the line, and drag the line to the location where they want the line to stop.</p> <p>Information for teachers:  Allow students to draw a line. The screen shot below shows one of the ways the figure could be separated into rectangular regions. Students may choose to divide the figure in a different way. Discuss with students ways the figure could be subdivided.</p>  <p>If students wish to erase the line, they may use the Erase tool (the second tool), the Undo tool (the fifth tool) or the Clear all tool (the last tool).</p>

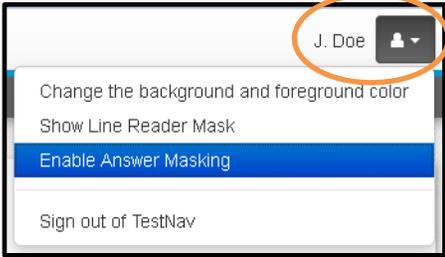
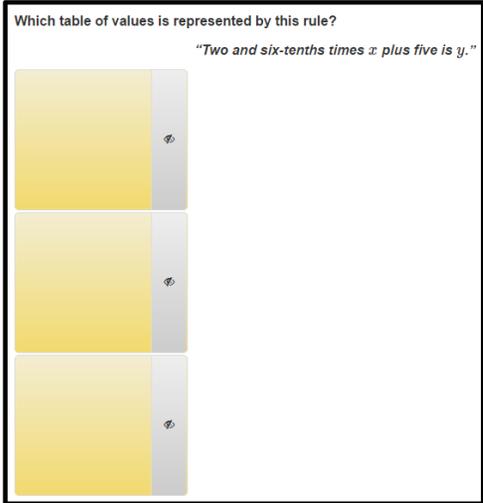
Question	Item Type	Answer Key	Guided Practice Suggestions
8	MC	A 12	<p>Question 8 contains a hint box that says, "Use the pencil to write numbers in the boxes to set up the proportion. Then select your answer." Students will select the pencil tool and use Free Draw to write in numbers to set up the proportion and solve this problem. Students may use the Erase tool or the Clear All tool to remove a number they have placed in the proportion.</p> <p>Students should solve the problem and then select an answer choice. It is important to note that the numbers written into the boxes will not be scored.</p> <p>Before students move to the next question, have them practice using the ruler tool. This question does not require the use of the ruler tool, but have students practice measuring the length or the height of the hint box using the centimeter ruler. This provides them the opportunity to practice manipulating the tool.</p> <p>There are two ruler tools on the top of the screen (). The icon on the left should be used to access the eighth inch ruler and the icon on the right should be used to access the centimeter ruler. Have students select the appropriate ruler for this question, the centimeter ruler. To move the ruler, select and drag the ruler over to the object to be measured. To rotate the ruler, select and drag an end with the circle. Have students practice moving and rotating the ruler. Selecting the ruler tool icon again will put the ruler tool away; or, select the pointer tool to put it away.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
9	MC	C 251 cubic inches	<p>Question 9 also contains a hint box. This hint box says, “Select and drag the values of the radius, height, and <math>\pi</math> into the formula. Then select your answer.” Students should select the values below the formula and drag them to the correct location in the formula.</p> <p>Students should use their scratch paper, the formula, and their calculator to decide which answer is closest to the number of cubic inches the cylinder will hold. The correct answer then must be selected.</p>

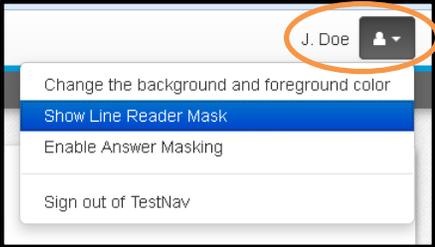
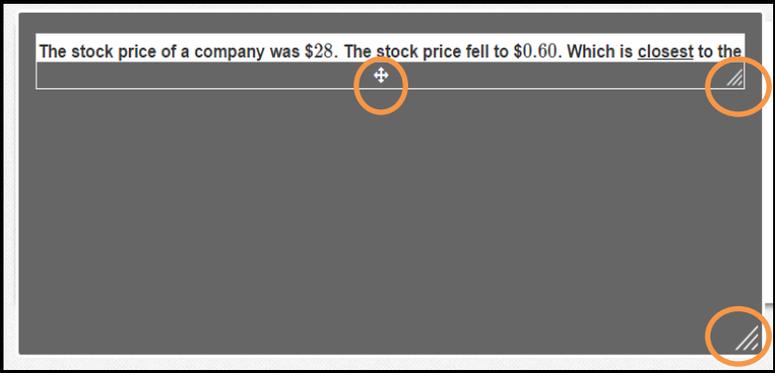
Question	Item Type	Answer Key	Guided Practice Suggestions
10	MC	C Graph C	<p>Question 10 has a hint box that says ,“Use the pencil to plot the ordered pairs from the table on each grid. Then select your answer.” Plotting the ordered pairs on the grids will help students decide which graph is the correct answer.</p> <p>A dot may be placed if students use their mouse, keypad, or touchscreen. The students would select free draw and use their mouse or keypad to click and release to place a point. If using a touchscreen, the students would use their finger to place a point. The fourth tool, Line Thickness, determines the size of the point.</p> <p>Have students plot the ordered pairs from the table onto the grid in Graph A and then decide if Graph A is the correct answer.</p> <p>If students change their mind and want to change the location of a point on the grid, they may use the Erase tool or the Clear All tool. Please note that the Clear All tool will remove all markings from all grids.</p> <p>Now, have students plot the four ordered pairs from the table onto the grids in Graph B and Graph C. They should then decide which answer is best and select the correct answer.</p> <p>Students may use the Answer Eliminator tool to eliminate any incorrect answer options.</p>
11			<p>In question 11, students will use their pointer or finger on a touchscreen to select each rational number. When a number is selected, a blue outline will appear around the box.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
11 (Cont.)	TEI Hot Spot	<p>Students should select all of the following:</p> $2\frac{1}{2}$ , $-\frac{1}{10}$ , 0.40, and $3.1 \times 10^2$ .	<p>Identify all the rational numbers. Select all the correct answers.</p>  <p>The eliminator tool may be used on this item to assist students in eliminating answers that are not correct.</p>  <p>Have students select the eliminator tool located in the toolbar and then place a red "X" on the answers that are not correct.</p>  <p>To remove an "X" keep the eliminator tool active and select the "X" to remove it. Have students practice removing an "X."</p> <p>The eliminator tool may also be used to eliminate an answer that was selected with the pointer tool.</p> <p>Remind students that placing an "X" on the incorrect answer choices does not complete the item. A selection must be made with the pointer tool in order for the item to be considered "Answered."</p> <p>Students should select all four rational numbers and only these four numbers to be correct.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
11 (Cont.)			<p>Question 11 cont.</p> <p>On the actual VMAST test, students may see questions that require them to select one or more answers. Some questions will state the number of correct answers to select. Other questions like this one will not specify the number of answers to select. When a question has an unspecified number of answers, the question will be considered “Answered” when one answer has been selected. This is so no clue or hint is given as to how many answers are correct.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
12	MC	B	<p>On question 12, have students practice using the Answer Masking accessibility feature. Select the user drop-down menu in the top right corner of the screen and select <i>Enable Answer Masking</i> from the menu.</p>  <p>The answer options on multiple-choice items will now be masked as shown in the screenshot.</p>  <p>Students may show or hide each option by selecting the “eye.”</p>

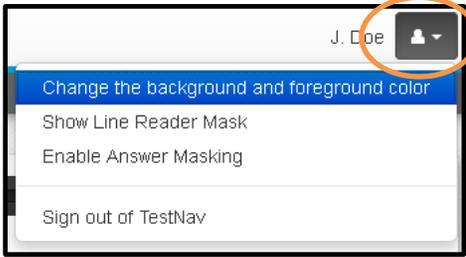
Question	Item Type	Answer Key	Guided Practice Suggestions						
12 (Cont.)			<div style="border: 1px solid black; padding: 10px;"> <p>Which table of values is represented by this rule?  <i>"Two and six-tenths times x plus five is y."</i></p> <p><input type="radio"/> A. <table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>5.2</td> </tr> <tr> <td>5</td> <td>13.0</td> </tr> </tbody> </table></p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> </div> <p>Answer Masking will remain on in each multiple-choice item until it is turned off. To turn off Answer Masking, select the user drop-down menu and select <i>Disable Answer Masking</i>.</p>	$x$	$y$	2	5.2	5	13.0
$x$	$y$								
2	5.2								
5	13.0								

Question	Item Type	Answer Key	Guided Practice Suggestions
13	MC	A 98%	<p>On question 13 have students practice using the Line Reader Mask accessibility feature. Select the user drop-down menu and <i>Show Line Reader Mask</i> from the menu.</p>  <p>The Line Reader Mask will appear over the item. Have students use the diagonal line areas to practice resizing the area covered by the line reader and the window through which content can be seen. Have students use the cross to move just the window through which content can be seen. Hold down on any part of the gray area and drag the tool to move the entire tool.</p>  <p>To turn off the Line Reader Mask, select the drop-down menu and select <i>Hide Line Reader Mask</i>. If the student does not turn off the Line Reader Mask, it will automatically turn off when the student navigates away from the item.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
13 (Cont.)			<p>Question 13 cont.</p> <p>Students should use their scratch paper and their calculator to decide which answer is the correct answer.</p>
14	MC	C $\frac{3}{32}$	<p>Question 14 contains a hint box that says, “Use the pencil to write numbers in the boxes to set up the probability expression. Then select your answer.” Students will select the pencil tool and use Free Draw to write in numbers to set up the proportion and solve this problem. Students may use the Erase tool or the Clear All tool to remove a number they have placed in the proportion.</p> <p>Students should solve the problem and then select an answer choice. It is important to note that the numbers written into the boxes will not be scored.</p> <p>Have students practice zooming in to look at the question on the screen, and then have them zoom out.</p> <p>On a PC or Chromebook, press the CTRL and + keys at the same time to zoom in. Press the CTRL and – keys at the same time to zoom out. Press the CTRL and 0 (zero) keys at the same time to return to the default screen setting.</p> <p>On a Mac, press the COMMAND and + keys at the same time to zoom in. Press the COMMAND and – keys at the same time to zoom out. Press the COMMAND and 0 (zero) keys at the same time to return to the default screen setting.</p> <p>On a touchscreen, have students touch two points on the screen and then move their fingers away from each other to zoom in. Touch two points on the screen and then move those fingers toward each other to zoom out. Double tap on the screen to return to the default screen setting.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
14 (Cont.)			<p>Question 14 cont.</p> <p>As students are practicing how to zoom in and out, make sure they are doing so within reason. If students zoom in too far, they may not be able to see all of the information necessary to answer the question. If students zoom out too far, they may not be able to clearly see details of the question on the screen. It should also be noted that zooming in and out on the screen may cause the text wrapping to change. Remind students that they should only use this feature when necessary.</p> <p>Before students go to the next question, make sure they press the CTRL (or CMD) and 0 keys at the same time or double tap on a touchscreen device to return to the default screen setting. The zoom feature will continue to be applied to future items until the student has returned to the default screen setting.</p> <p>When students are using a touchscreen, they must touch two points located outside the Drawing Interaction window in order to zoom in or out. To drag the screen to the right or to the left, the student must be touching the screen outside the Drawing Interaction window.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
15	TEI Drag and Drop	$-3 \geq x$	<p>Question 15 is a drag and drop technology-enhanced item. In this item students will select and drag their answer choices to the empty boxes.</p> <p>Have students try to place a number into the box on the right. They will not be able to do this. The numbers can only be used in the box on the left. Sometimes a restriction is placed on where a dragger can be placed to limit errors.</p> <p>Have students select the number <math>-10</math>. As they move this number, only the box on the left shades blue, indicating this is the only box that will accept this dragger.</p> <p>Selecting a dragger and moving it to the empty box may cause other draggers to shift location in the answer option area.</p> <p>Have students practice moving draggers back to the gray box. Draggers will go back to their original location when returned to the gray box.</p> <p>This item will not be considered “Answered” until each box has an answer in it.</p>

Question	Item Type	Answer Key	Guided Practice Suggestions
16	TEI Drag and Drop	<p><b>Vertical Angles:</b> 1 and 3; <b>Adjacent Angles:</b> 4 and 3; <b>Supplementary Angles:</b> 3 and 2; <b>Complementary Angles:</b> 3 and 4.</p>	<p>Question 16 is also a drag and drop technology-enhanced item. Notice in this item, students may select and drag a number more than one time.</p> <p>This question will show as “Unanswered” on the Review screen if any one of the boxes is left unfilled.</p> <p>Have students practice using the accessibility feature that allows them to change the background and foreground color. Select the user drop-down menu and <i>Change the background and foreground color</i> from the menu.</p>  <p>The screenshot shows a user profile for 'J. Doe' with a dropdown arrow. The dropdown menu is open, listing several options: 'Change the background and foreground color' (highlighted in blue), 'Show Line Reader Mask', 'Enable Answer Masking', and 'Sign out of TestNav'.</p> <p>There are six different options other than black on white, which is the default setting. Have students select a contrast setting and then the <i>Continue</i> button to enable this feature. This feature could be used by students who would benefit from the use of color contrasting to make text more distinct.</p> <p>This setting will remain enabled until turned off. To turn off this setting, select the user drop-down menu, select <i>Change the background and foreground color</i>, and then select the radio button next to the default setting. Then select the <i>Continue</i> button.</p> <p>Information for Teachers: This is the end of the practice item set. See the <i>Introduction to TestNav 8: MC/TEI</i> document for information on closing TestNav.</p>