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# Online Calculators in the Test Delivery System

2016–2017

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*Prepared by the American Institutes for Research® (AIR)*

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## About Calculators in the Test Delivery System

Starting in the fall of 2016, the Desmos calculators will be embedded within the OAKS assessments.

The Desmos HTML5 calculator is used by millions of students around the world and can be accessed from the web, or on iOS, Android and Chrome apps. This calculator is fully accessible at the WCAG 2.0 AA level (optimized for blind and visually impaired students).

Three versions will be used in OAKS assessments:

### Standard Calculator

Available for: Mathematics Grade 6, Science Grade 5 and Social Sciences Grade 5

<http://demo.tds.airast.org/DesmosForAssessments/TDSCalculator.html?mode=basic&url=https://or.tds.airast.org/student>

### Scientific Calculator

Available for the following tests: Mathematics Grades 7-8

<http://demo.tds.airast.org/DesmosForAssessments/TDSCalculator.html?mode=scientific&url=https://or.tds.airast.org/student>

### Full Function Calculator

Available for the following tests: Mathematics HS, Science Grade 8 and HS and Social Sciences Grade 8 and HS.

<http://demo.tds.airast.org/DesmosForAssessments/TDSCalculator.html?mode=graphic&url=https://or.tds.airast.org/student>

The Desmos site ([www.desmos.com](http://www.desmos.com)) contains a wide array of resources to help both teachers and students become familiar with the calculator.

The full Desmos user guide is available at:

[https://s3.amazonaws.com/desmos/Desmos\\_Calculator\\_User\\_Guide.pdf](https://s3.amazonaws.com/desmos/Desmos_Calculator_User_Guide.pdf)



**TIP: Do not click the Return to Login button the sample calculators pages.** The sample calculator pages have a button in the top right corner that says Return to Login. This button directs to a page that is only accessible in the Secure Browser. Because these sample calculators can only be accessed in Google Chrome, Firefox, or Internet Explorer, clicking this button will lead to an error page.

## Accessing the Sample Calculators

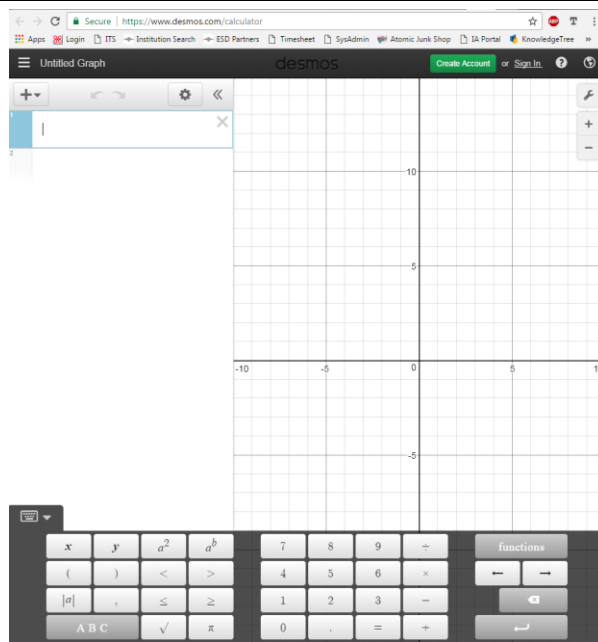
All sample calculators are available on the OAKS portal at <http://oaksportal.org/resources/>. We encourage bookmarking the sample calculators so that users can easily open them. Desktop/home screen shortcuts can also be created so that the sample calculators can be accessed without an internet connection. The online calculators work on all supported browsers, as listed on the [Supported Web Browsers](#) page on the OAKS portal.

## Open a Sample Calculator on Windows/Mac/Linux

1. Navigate to the OAKS portal > Resources > Other. You may also use the Advance Search to find the calculator links.

2. Click on a [Calculator] link.

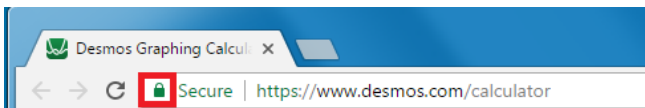
The sample calculator you selected will open in the browser window.



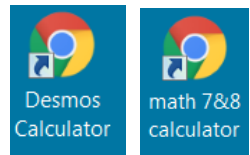
## Create a Desktop Shortcut to the Sample Calculator

*Note: Ensure the browser window does not take up the full monitor.*

1. Use your mouse to hover over the lock icon in the address bar.
2. Click and drag the lock icon to the desktop. A shortcut will appear that says "Calculator" and have the Firefox icon.




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3. *Optional: Rename shortcut icon*
    - a. Click in the icon text and it will become editable.
    - b. Change the text to what you want (e.g., “Graphing Calculator”).
  4. Double-click the icon to open the sample calculator. It will open in Firefox.
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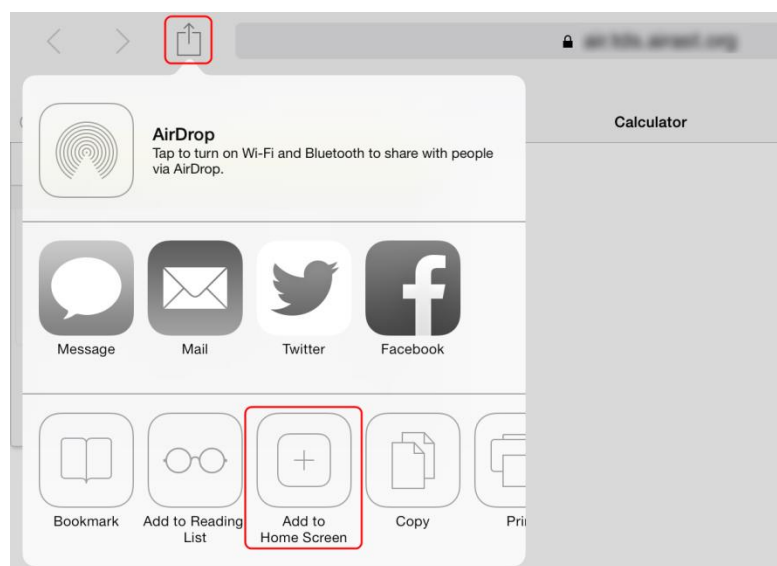


## Open a Sample Calculator on a Mobile Tablet

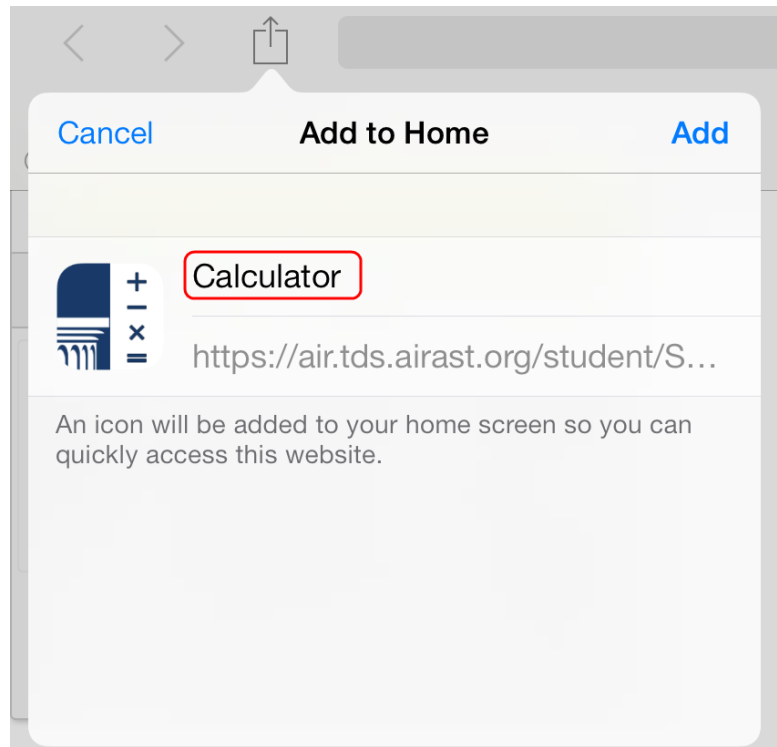
### Save a Sample Calculator to your Home Screen for iOS 8

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1. Tap the “share” icon [  ], which appears just to the left of the address bar.
2. Tap the [Add to Home Screen] icon.



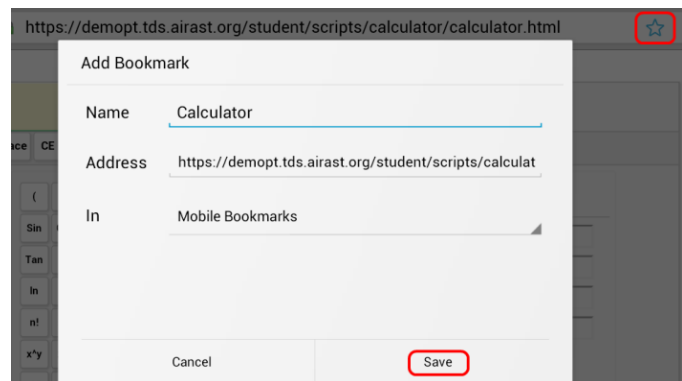
3. *Optional: Rename shortcut icon*  
(By default, all sample calculators are named "Calculator.")
  - a. Tap on the text that says "Calculator."
  - b. Using the tablet keyboard, add or modify text (e.g., "Graphing Calculator").
4. Tap the blue **[Add]** link. The shortcut icon will appear on the Home screen.



### *Bookmark and Add a Sample Calculator to your Home Screen for Android*

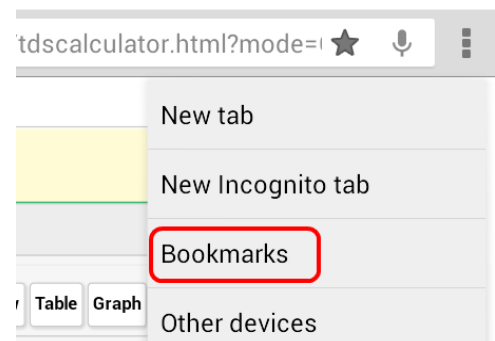
#### **Save the Sample Calculator as a Bookmark**

1. Tap the star icon [☆], which appears on the right side of the address bar. The **Add Bookmark** screen will open.
2. *Optional: Modify the bookmark name*
  - a. Tap the text and then use the keyboard to change the name.
  - b. Tap the down arrow to close the keyboard.
3. Tap **[Save]**.

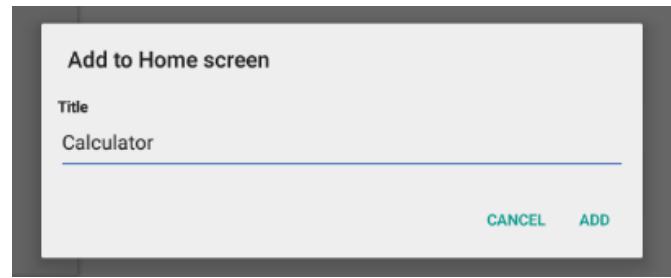


#### **Add the Calculator Bookmark to the Home Screen**

1. Tap the menu [☰] icon, which appears in the upper right corner. The menu will open.
2. Tap **[Bookmarks]**. The list of your bookmarks will appear.



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3. Tap on the calculator bookmark.
  4. Tap the menu [☰] icon.
  5. Tap [**Add to home screen**]. Another window will pop up. Click the add button. The bookmark will be added to your tablet's home screen.



# Change Log

Description of Change	Date
Updated screenshot on page 3 to show degrees as default setting.	1/27/17
Updated sample calculators and note about note clicking the "Return to Login" button	2/23/17