

SECTION 508 REPORT **Section 508 Accessibility**
MathPad™ and MathPad™ Plus: Fractions and Decimals
from IntelliTools, Inc.

April 4, 2003

For product information: *MathPad*
MathPad Plus: Fractions and Decimals

Introduction

Section 508 of the Rehabilitation Act Amendments of 1998 requires that federal agencies ensure that disabled employees and members of the public have access to information, computers and networks comparable to access enjoyed by people without disabilities. On December 21, 2000, the Architectural and Transportation Barriers Compliance Board (the Access Board) issued final accessibility standards for “electronic and information technology” (EIT) covered by Section 508. These standards set forth a definition of EIT and the technical and functional performance criteria necessary for such technology to be considered “accessible.”

IntelliTools has been developing products and technologies accessible to people with disabilities. The following information outlines the accessibility features of *MathPad and MathPad Plus: Fractions and Decimals* in the context of the Section 508 standards. The document contains subsets of the EIT Accessibility Standards as published in 36 CFR Part 1194 and provides an analysis of *MathPad and MathPad Plus: Fractions and Decimals* as compared to these standards.

Product Overview

MathPad™ is an electronic worksheet that enables K-2 level students to do addition, subtraction, multiplication, and division directly on the computer. It is ideal for students who need help organizing or navigating through math problems or who have difficulty doing math worksheets with pencil and paper.

MathPad™ Plus: Fractions and Decimals is an electronic worksheet that enables grade 3-8 level students to do onscreen addition, subtraction, multiplication, and division using fractions and decimals. MathPad Plus is especially useful for adapting problems from worksheets or textbooks so students with learning disabilities can work on the same problems as their classmates.

For more information, please visit our web site at: www.intellitools.com

Accessibility Summary

All major features of *MathPad and MathPad Plus: Fractions and Decimals* are accessible via the keyboard. In addition, speech output of on-screen text is provided, as is one- and two-switch scanning, using a supported switch interface such as the *IntelliKeys* keyboard.

Detailed Accessibility Features

Section 1194.21 Software Applications and Operating Systems - Detail Voluntary Product Accessibility Template		
<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Supported. MathPad and MathPad Plus: Fractions and Decimals are fully keyboard-accessible.	
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	Supported with minor exceptions.	Some features may not display in high contrast when the system is in High Contrast mode.
(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology	Supported. Moving the system caret indicates focus.	

can track focus and focus changes.		
(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.	Supported through equivalent facilitation.	Speech output is available for most text.
(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	Supported. Bitmap usage is consistent throughout the software.	
(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	Supported. MathPad and MathPad Plus: Fractions and Decimals use standard operating system functions for displaying text.	
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported with minor exceptions.	Some features may not display in high contrast when the system is in High Contrast mode.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Not Applicable. There are no animations that are part of the user interface.	
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supported. Color coding is used in toolbars, but always in conjunction with text.	
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	Supported.	
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency	Supported.	

greater than 2 Hz and lower than 55 Hz.		
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Not Applicable. MathPad and MathPad Plus: Fractions and Decimals do not use forms.	

Section 1194.22 Web-based Internet information and applications - Detail Voluntary Product Accessibility Template
Not Applicable. MathPad and MathPad Plus: Fractions and Decimals do not include web-based features.

Section 1194.23 Telecommunications Products - Detail Voluntary Product Accessibility Template
Not Applicable. MathPad and MathPad Plus: Fractions and Decimals are not telecommunications Products.

Section 1194.24 Video and Multi-media Products - Detail Voluntary Product Accessibility Template
Not Applicable. MathPad and MathPad Plus: Fractions and Decimals are not video products.

Section 1194.25 Self-Contained, Closed Products - Detail Voluntary Product Accessibility Template
Not Applicable. MathPad and MathPad Plus: Fractions and Decimals are not self-contained, closed products.

**Section 1194.26 Desktop and Portable Computers - Detail
Voluntary Product Accessibility Template**

Not Applicable.
MathPad and MathPad Plus: Fractions and Decimals are not desktop or portable computer products.

**Section 1194.31 Functional Performance Criteria - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supported with equivalent facilitation.	Speech output is provided for most text. Also, text is displayed using standard system functions, so can be used with a screen reader.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supported with minor exceptions.	Speech output is provided for most text. User has control over fonts and sizes of text throughout the product. Users of Microsoft Windows operating systems can access Microsoft Magnifier and High Contrast Settings in the Accessibility Options to enlarge the screen display. An assistive aid may also be used.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided,	Supported. Speech output and audio features are provided,	

<p>or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided</p>	<p>but not essential for using MathPad and MathPad Plus: Fractions and Decimals.</p>	
<p>(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.</p>	<p>Supported Speech output and audio features are provided, but not essential for using MathPad and MathPad Plus: Fractions and Decimals.</p>	
<p>(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.</p>	<p>Supported MathPad and MathPad Plus: Fractions and Decimals do not require user speech.</p>	
<p>(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.</p>	<p>Supported with minor exceptions.</p>	<p>Major features of MathPad and MathPad Plus: Fractions and Decimals are accessible via the keyboard. In addition, the software is compatible with accessibility devices such as the IntelliKeys keyboard.</p>