

WIRIS Editor and MathML

Please use the following guidelines for determining when to use the WIRIS Editor to enter MathML for math assets.

What should WIRIS Editor be used to create?

- Formulas, equations, expressions
- Anything involving mathematical symbols (add, subtract, multiply, divide, square root, line segment, angle, pi symbol, prime symbols, absolute values, etc) or notation that should not be split by line breaks (e.g., ordered pairs, ratios). (*NOTE the colon in ratios should be **bold**.)
- Function names ($f(x)$, $V(x)$, etc.)
- Fractions
- Superscripts for exponents and subscripts
- Repeating decimals where an overbar (vinculum) is used. If an ellipsis is used, the repeating decimal does not need to be created in MathML.
- Any standalone variable, such as “total cost, c , of w widgets,” or any variable that appears in a term (e.g., x -axis, y -intercept).
- Integer or decimal values followed by a degree symbol. Include the units of F or C and make the letters render as text using the text selection
- Negative numbers that are not part of an expression

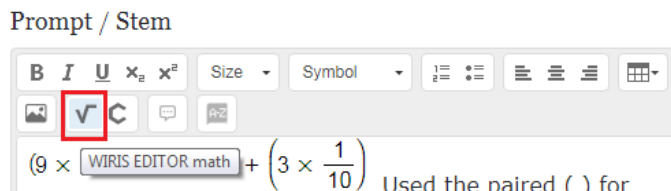
What should not be created using the WIRIS Editor?

- Numbers that stand alone within a stem and do not include a mathematical symbol
- Numbers followed by a percent sign
- Currency
- Time (including dates)
- Standalone letters that name something, such as City K. (*NOTE this is not italicized either.)

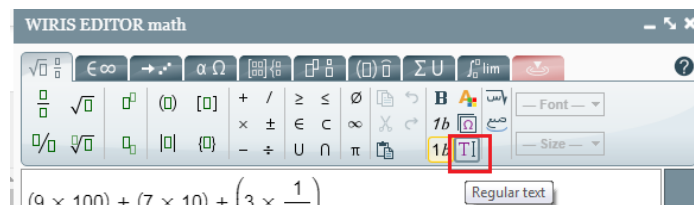
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What else should users know about WIRIS Editor and Math ML?

- To access the WIRIS Editor to insert any Math ML object, select the button with the square root symbol on it. A separate box will appear.



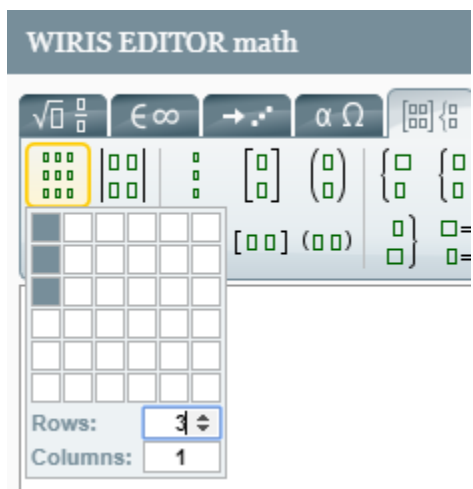
- To edit an existing equation – double-click existing equations to edit in the WIRIS Editor.
- Punctuation within MathML
 - Include any punctuation that immediately follows a MathML object; for example, a question mark after an equation formatted in MathML. However ensure the punctuation is styled as “text” in the WIRIS Editor (this is an available interface option).



- When entering an equation or expression, include a space before and after all operators.
 - Commas within MathML also need to be formatted as text? - leave as is, no text.
 - Decimals within MathML - leave as is, no text.
- Parentheses with MathML
 - Use the paired parentheses that are in the interface options
 - Parentheses used in function names such as $f(x)$ should be created using the paired parentheses found in the WIRIS Editor.
 - The paired parentheses will automatically expand to the size needed for the numbers entered (e.g., fractions, numbers or variables with exponents) .

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- Use the Matrix buttons to create separate lines of math ML in one Math ML box.



Specific examples:

- Ordered pairs – Use the paired parentheses, enter number comma space.
- Trig functions – Use the preformatted trig functions found in the Calculus tab in WIRIS, tab 9.
- Prime symbol – Use the prime symbol that is found in the second tab of the interface.
- To add a line over a repeating decimal or line segment, use the symbol in the 3rd or the 7th tab.