

A Guide to

Building Math Items





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1 Fractions

Sample A

		Question	
Nancy's	room is $10\frac{1}{2}$	feet long and $7\frac{1}{2}$ feet wide. What is the area of Nancy's room?	
○ A	78 $\frac{3}{4}$ sq.ft.		(X) Wrong
⊖В	$70\frac{1}{4}$ sq.ft.		Wrong
⊖ C	71 sq.ft.		Wrong
	18 sa.ft		Wrong

To create fractions and other math equations in DataMate Elite, you will utilize the **WIRIS editor**. This tool works similar to MathType or Microsoft Equation. The **WIRIS editor** is located on the question creation window on the upper right side.

Question:			
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Nancy's room is			~
			\sim
<		>	
Path: p			
Add Answers A-D	Add Answers 1-4	Add Answer	

Clicking on the **WIRIS editor** $\sqrt{}$ will open the following pop-up window:



To create a fraction, click on the fraction symbol $\frac{1}{2}$.

This will create the fraction template for you to create your fraction. To create a mixed number such as shown in **Sample A** click with your cursor in front of the fraction template and enter the number 10. Then, click within the numerator box and enter a 1. Then, click within the

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denominator box and enter a 2.

See the completed mixed number from **Sample A** below.

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$\frac{\Box}{\Box} \sqrt{\Box} \Box^{\Box} (\Box) [\Box] + / \ge \le \emptyset \Box \Rightarrow \mathbf{B} \underline{A}_{\mathbf{a}} \overline{\Box}_{\mathbf{a}}$			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
10 1/2			
OK Cancel	LaT	ēX Ma	anual

Click **OK** to add the fraction to your question.

Question:



Type regular text and numbers within the DataMate Question editor and use the **WIRIS editor** to add mixed numbers, proper or improper fractions to Fraction problems.

The same concept applies to creating your answer choices. At the bottom of the Question editor, click on **Add Answers A-D** or **Add Answers 1-4** depending on your desired answer choices. Four boxes will appear:



Each answer choice has its own editor box that in turn have the **WIRIS editor s** built in for each separate answer choice, as shown above.

Continue to the bottom of your page to ensure that everything looks correct and then hit the Save button.

2 Multiplication Tables

	Sample B	
	Question	
Solve:		
5.26 <u>x .67</u>		
O A 0.6838		X Wrong
OB 3.5242		X Wrong
OC 5.93		(X) Wrong
OD 352.42		(X) Wrong
	□ Come back later	

Creating a multiplication problem is relatively simple. First, type "**Solve:**" into the Question box.

Question:	
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Solve:	~
	\sim
>	
Path: p	

Enter so that you will be typing in the line below where you typed **Solve:** Here you will type **5.26** and **Enter** again. So far your problem should look like this:



A Special Character box will appear:

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This box is where you will find a lot of the characters that you need for your math problems. You have division symbols, degree signs, pluses, pi symbols, arrows, etc. It even tells you the HTML code!

For the problem in **Sample B**, you will only select the multiplication symbol on the third row.

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Use	left	and	righ	t arr	ows	to r	avig	ate.												

Once you have clicked the multiplication symbol, your problem should look like this:

Solve: 5.26 ×

Next to the multiplication sign you will type a space followed by ".67".

Select \times .67 and underline it.

Select the entire problem.



Select the "indent" option 🛊 located at the top right corner of your chart. Click it twice. You will notice that the problem becomes indented.

1	Question:	
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Now you can continue on to enter the answer options. At the bottom of the Question editor, click on **Add Answers A-D** or **Add Answers 1-4** depending on your desired answer choices. Four boxes will appear. In each box you are going to enter an answer option.

You have completed your first multiplication problem! You can utilize these steps for other problems (addition, subtraction, etc.).

Continue to the bottom of your page to ensure that everything looks correct and then hit the Save but	of your page to ensure that everything looks correct and then hit the Save button.
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3 Problems with Pictures



In the text box, type "Jan kept track of the number of goals her team scored in each of their games for one season. The results are shown in the line plot below."

Above the text box, you will see a bar where you will upload your image. Select **Browse** and find your picture to insert. You will then see your picture appear.

In	nages to	o be e	mbed	lded i	n que	stion	or answers:
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		×		×	×		Delete
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	Jan ke results	pt tra are :	ack o shov	f the vn in	num the l	nber (line p	of goals her team scored in each of their games for one season. The lot below.

Select the end of your sentence and **Enter** twice. In the space immediately below your sentence, you are going to insert your picture.

Next to the photo, you will see a selection that reads **Insert Image in: Question**. Click on **Question**.

results are shown in the line plot below.



NUMBER OF GOALS SCORED BY GAME

In the space below the picture, type the rest of your problem. ("In how many games did the team score more than 2 goals?")

At the bottom of the Question editor, click on **Add Answers A-D** or **Add Answers 1-4** depending on your desired answer choices. Four boxes will appear. In each box you are going to enter an answer option. You have

completed your problem! You can utilize these steps for other problems containing graphs, pictures, charts etc.

Continue to the bottom of your page to ensure that everything looks correct and then hit the Save button.

4 Inserting Charts

Sample D

	Question					
The table	below shows the	e prices the Alpi	ne Ski Shop charges for snowboarding supplies.			
Γ	Bindinas	\$94.14				
	Helmet	\$77.78				
	Goggles	\$41.51				
Ī	Snowboard	\$217.93				
Ī	Boots	\$113.89				
lan decide	es to buy a snow	board, helmet a	nd goggles. How much will lan spend?			
Show you	Show your work.					
Answer:	\$					

By now you know how to write basic problems in the text box. After you do this, be sure there are multiple empty lines between the two sentences.



In the space between sentences, you are going to create your chart. On the top left of the toolbar, click on the chart sign 📝 .

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You will now see the Insert/Edit Table box.

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General Prope	ties		
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Cell Padding		Cell Spacing	
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Width		Height	
Class	Not Set	~	
Table Caption			
Insert			Cancel

Type the amount of **Columns** (2) and **Rows** (5) you need, then click **Insert**.

Question:	
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The table below shows the prices the Alpine Ski Shop charges for snowboarding supplies.	~
	~
	•
Path: table » tbody » tr » td	
Add Answers A-D Add Answer	

In each box, you will enter the following information:

Question:			
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The table	below sł	hows the prices the Alpine Ski Shop charges for snowboarding supplies.	~
Bindings	\$94.1	4	
Helmet	\$77.7	8	
Goggles	\$41.5	1	
Snowboa	rd \$217.	93	
Boots	\$113 .	89	\sim
<		2	>
Path: table » th	body » tr » t	td	
Add Answers	A-D	Add Answer	

You will notice that the boxes are close together. Here you are going to click at the end of the word "**Snowboard**" (where the column ends) and enter 2 to 3 spaces. Do the same at the beginning of the word. Repeat for the "**\$217.93**" option. It should now look like this:

Question:			
BIUABE		Format 💿 🗶 🐚 🏝 🕲 🛍 🏦 🎼 🗄 🕸 🛱 🗰 👘	
🗾 🖃 🗉 🖃	3	Ψ' 🎟 🛅 — 🖉 🔚 🏣 🖦 ங ×. ×' 💆 <u>A</u> • 💇 • Ω 😣 🧏	
The table below	w shows the p	rices the Alpine Ski Shop charges for snowboarding supplies.	~
Dindinge	¢04.14		
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Goggles	\$41.51		
Snowboard	\$217.93		
Boots	\$113.89		~
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Path: table » tbody »	tr » td		
Add Answers A-D	Add Answe	r	

Select the entire chart and center it Then select the chart again by highlighting the cells. At the top left corner, underneath the underline option, click on the table option . This will open the **Table Cell Properties**.

Question:	
B I U ARE ☴ ☴ ☴ Format - X 🗈 🖎 🔞 🎕 A 😘 ⊟ !Ξ 🕸 🕼 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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The table below shows the prices the Alpine Ski Shop charges for snowboarding supplies.	~
Bindings \$94.14	
Helmet \$77.78	
Goggles \$41.51	
Snowboard \$217.93	
Boots \$113.89	~
< >>	
Path: table » tbody » tr » td	

Select the **Advanced** tab and at the bottom of the table, select the small square \Box at the end of **Border Color**.

General Ad	Ivanced
Advanced P	ropercies
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Summary	
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Background	Image
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Background	Color

On the Color Picker click anywhere on the black bar and then click [Apply	
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	Table Cell Properties	-
	Select a Color	
Picker Pale	tte Named	
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Apply		cancel

Select the General tab. Under Alignment select the Center option. Then click Update

	Table Cell Properties	×
General Advance	d	
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Your chart should now look like this:

Question:				
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	Bindings	\$94.14		
	Helmet	\$77.78]	
	Goggles	\$41.51]	
	Snowboard	\$217.93]	
	Boots	\$113.89]	
				~
<			>	
Path: table » tbody » tr » td				
Add Answers A-D Add Answer				

Now select **only** the left column and select the **Align left** option.

Bindings	\$94.14
Helmet	\$77.78
Goggles	\$41.51
Snowboard	\$217.93
Boots	\$113.89

At the bottom of the Question editor, click on **Add Answers A-D** or **Add Answers 1-4** depending on your desired answer choices. Four boxes will appear. In each box you are going to enter an answer option.

You have completed your chart! You can utilize these steps for other problems with charts.

Continue to the bottom of your page to ensure that everything looks correct and then hit the Save outton.

<u>Something to note</u>: The quality of **creating** a chart with the Question editor will be significantly better / cleaner than inserting an image of the same chart. If you can, to the best of your ability, replicate something by using the effects in the tool bar/text box. We recommend doing so.

5 Charts with Pictures

Sample E

Question	
10 ³ × = 3,000	
O A 3	(X) Wrong
O B 30	X Wrong
O C 300	X Wrong
O D 3,000	X Wrong
□ Come back later	

First, you are going to create a chart. Click on the **Table** option **Solution**. Under **Columns**, enter "3" and under **Rows**, enter "1." Then click **Insert**.

	Insert/Edit 1	Table	×
General Advan	nced		
General Proper	ties		
Columns	3	Rows	1
Cell Padding		Cell Spacing	
Alignment	Not Set 🗸	Border	0
Width		Height	
Class	Not Set	~	
Table Caption			
Insert			Cancel

In the far left box, enter " $10^3 \times$ ".

Above the text box, you will see a bar where you will upload your image. Select **Browse** and find your picture to insert. You will then see your picture appear.



Click on the middle box in your chart.

Next to your photo, you will see a selection that reads **Insert Image in: Question**. Click on **Question**.



To the immediate right of the box you will notice there is an extra space. Delete it.

You may then continue to enter the rest of your question in the last box of your chart.



Now you can continue on to enter the answer options. At the bottom of the Question editor, click on **Add Answers A-D** or **Add Answers 1-4** depending on your desired answer choices. Four boxes will appear. In each box you are going to enter an answer option.

You have completed your problem! You can utilize these steps for other problems that include squares, circles, or other geometrical figures within a problem

Continue to the bottom of your page to ensure that everything looks correct and then hit the Save button.

6 WIRIS Editor Overview

As seen in **Sample A**, the WIRIS editor can be used to create fractions. However, similar to Microsoft Word extensions such as MathType, it can help create a lot of other math equations and symbols!

Below is the WIRIS editor pop-up window as it first appears. The following pages will take you through all **nine main tabs.**

0	WIRIS edit	or - Inte	rnet Expl	orer						_		×
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1) The General tab

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In the General Tab, you may create equations that include:

- Fractions, mixed numbers, beveled fractions and (square) roots
- Super- and sub-scripts
- Parentheses, brackets, vertical bars, and curly brackets
- Standard mathematical signs such as +, -, ×, ÷, the Pi and Infinity symbols etc.

2) The Symbols tab

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In the Symbols Tab, you may create equations that include:

- Standard mathematical signs such as +, -, ×, ÷, the Pi and Infinity symbols etc.
- Other mathematical symbols such as Greater Than, Lesser Than, Identical To, Subset Of, Superset Of, Angles, Parallel To, Squares, Circles etc.

3) The Arrows tab

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In the Arrows Tab, you may create equations that include:

- Most types of arrows, ellipses, and dashes
- Numbers containing super- or subscripted arrows or dashes

4) The Greek, Letters, and Numbers tab

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α	β	V	δ	ε	ζ	η	θ	д	1	N	Z	প্থ	ୟ	J	٤٦	н	С
κ	A	μ	v	ξ	0	π	ω	ρ	ς	Q	С	8	я	R	17	Ν	0
σ	T	U	φ	ø	Х	Ψ	ω			R	P	€ →	8 →	0 >		F	S >

In the Greek, Letters, and Numbers Tab, you may create equations that include:

- Common Greek letters used in mathematics
- Symbols for Numbers such Natural, Real, Rational, Integer, etc.
- Fraktur Capitals, Script Capitals, etc.
- Chemical Symbols such as Hydrogen, Carbon, Nitrogen, etc.

5) The Matrices and Elementary tab

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In the Matrices and Elementary Tab, you may create equations that include:

- Matrices with brackets, parentheses, or vertical bars
- Tables
- Multiple Column/Row numbers with or without brackets/parentheses3
- Ellipses

6) The Scrips and Layout tab



In the Scripts and Layout Tab, you may create equations that include:

- Big or Small Fractions
- (Square) Roots
- Superscript, Subscript, and Super/Subscript Numbers
- Elements under or over Numbers
- Big Operators with super- and/or subscripts

7) The Decorations tab



In the Decorations Tab, you may create equations that include:

- Different type brackets or bars
- Accents
- Enclosures
- Strike-Outs or Strike-Throughs

8) The Big Operators tab

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$\sum_{n=1}^{n} \sum_{n=1}^{n} \prod_{n=1}^{n} $	π 🗄 Π	
$\sum_{\Box} \Sigma_{\Box} \prod_{\Box} I$	Π	

In the Big Operators Tab, you may create equations that include:

- the Summation Symbol (with superscript, subscript, and under/over)
- the Product symbol (with superscript, subscript, and under/over)
- Big Operators (with superscript, subscript, and under/over)
- the Intersection and/or Union symbols

9) The Calculus tab



In the Calculus Tab, you may create equations that include:

- Integrals
- Differentials
- Limit symbol
- Curl, Divergence, Gradient, Laplacian
- sin, cos, tan, log, and In