Assume all measurements in mm unless otherwise stated.
Be good if checkboxes could just be boolean mouse clicks

Suggested layout for data entry of Job details:

Does the item require:

A Mat?	*# if tick box open dropdown*
Backing?	*# if tick box open dropdown*
A Frame?	*# if tick box open dropdown*
Glass/Acrylic?	*# if tick box open dropdown*
Stretching?	*# if tick box open dropdown*
A Caption?	*# if tick box open dropdown*
Laminating?	*# if tick box open dropdown*
Other extras?	*# if tick box open dropdown*

Assuming box's were ticked, following is a more detailed description of how the dropdown next to "A Mat?" would work. I chose this to explain better because it is the most complicated and where a mat is used, the external dimension worked out will be the same 99% of the time for Backing, Frame, Glass/Acrylic for the external dimensions plus stretching and laminating based on internal mat window dimensions. Where there is no mat selected, size can be taken from what's entered under Backing. The last paragraph describing Mat below relates to looking up a part number entered and performing a function to calculate the price and the same principle will apply for everything else, ie, a box under "A Frame?" will be for putting in the moulding number etc.

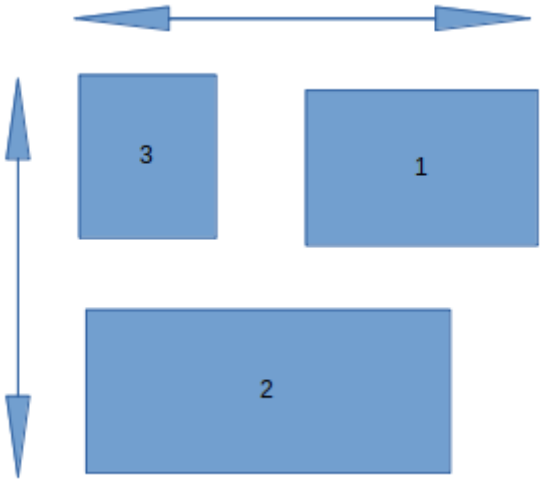
So the process would go something like this:

 # Ask "How many windows does this mat have?" with afield to input number

 # If "1" is entered then a fieldbox to request item size in mm and three check boxes in response to asking what border size : 1/ "50mm" 2/"70mm" 3/"custom mm" . Note! *The item size entered will be larger than the window size since the mat needs to overlap the item so the program needs to automatically make all windows 4mm smaller in each dimension than the size entered. And, in adding the border size to the window size, we then have the external dimension from which to calculate price. This external dimension can then be used to autofill the frame, glass/acrylic and backing dimensions enable those auto fills to be overridden*

 # If custom size is selected, request size for top, bottom and each side but whatever is entered in for the top, have that default to the others but allow the others to then be overridden manually. Then if the left side is entered manually, have the right side default to it while still possible to override manually.

 # If a number higher than 1 is entered instead, have 1-n fields made available to enter window sizes in mm. Here it would be nice to have a graphical display so the windows could be spaced graphically with the mouse but if that's too time consuming then just request the window number that will go at the top left and then when adding each consecutive window ask for a margin in mm either to the right or below of a selected window already placed maybe? Then once all windows are placed have the check boxes again in response to asking what border size 1/ "50mm" 2/"70mm" 3/"custom mm" for the outside border which will be added to the greatest distance between outside window edges from left to right and top to bottom to then get the ultimate external dimensions. eg. greatest distances shown by arrows.



Doing it this way requires the finer points of arranging like for example if window 2 in the diagram was to be further to the right, to be done after but atleast those greatest distances can be determined which should be the same regardless of the arrangement and it is those measurements that allow the calculation of the price. Of course there would be exceptions making a difference to those measurements like if window 2 above was so far to the right that it was beyond the outer edge of window 1 making the horizontal distance longer. Ideally it would be good to have a timely way to account for this kind of scenario, horizontal or vertical too. I'll leave that to your expertise. The outer size is discovered by how the inner items are arranged.

#Then a box asking for the Mat Number

*#Next maybe hanging underneath all this, we need a checkbox asking "*A second mat?"*. If checked the program just uses the dimensions for all windows calculated for the first mat and just makes them all 6mm larger. If the second mat box is checked then the option to check another becomes available for a "*A third mat?*" making all windows 6mm larger than the second mat and so on up to say 5 mats. Of course for each mat there will need to also be a box asking for the mat number. Now, 6mm should be the default but the operator should be able to adjust this because sometimes something specific is requested.*

#Now for calculating the price of a mat, this will be a function of the type of mat which will be known once the mat number is entered. So with the mat number entered, the program will look it up and then depending on what category it falls into, perform a function based on that category and what the external dimensions have been determined to be. In the case of mats with multiple windows, it will need to also add $3.00 for each window more than 1. Then clearly if there is more than one mat, it will need to do the same calculation for that mat and add it to the previous etc. I think that just about covers it.

Once all the prices for each Job component are calculated and added together, that will need to be exported to an Invoice with the possibility of adding more jobs to it.

Suggested layout for invoices:

Top Left Company details, top right, date and "Tax Invoice" number

Customers name, number and other optional details.

Job 1 Details (show part numbers for each component but not component pricing. Also show external size and the number of items if more tan one on the one frame)

Price

Job 2 Details ……..

Price etc for Job 3-n

Total Price

Amount Paid

Balance

Data will also need to be exported to a work detail for the factory. I'll get back to you about a layout for that but it will just basically go into a spreadsheet with the invoice number with a table of inclusions showing what is and is not included, measurements and moulding locations. Regard to moulding locations, each moulding number is stored in a bay in the factory and each bay is numbered so it will need to show what bay number a particular moulding for a job is in. Thanks!