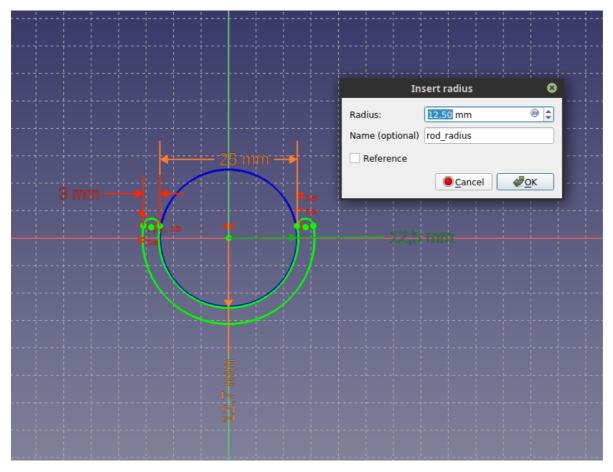
## SIMPLE FULLY PARAMETRIC DESIGN WITH NAMED CONSTRAINTS

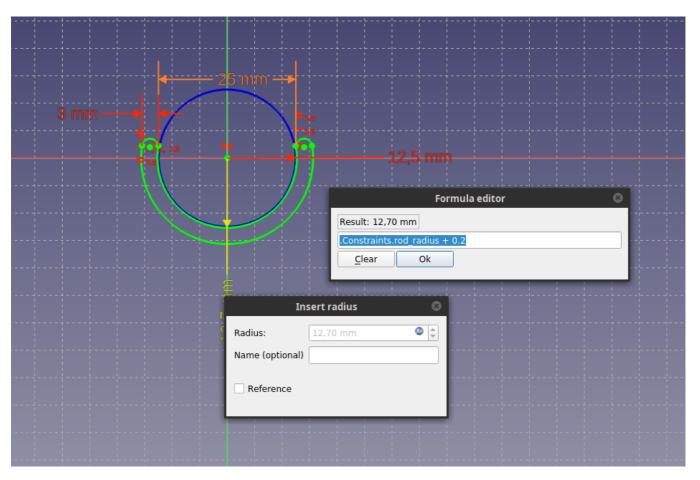
I was wondering why ppl strugggle with SPREADSHEETs, when there is a much simpler way by using NAMED CONSTRAINTS. Especially for smaller designs this method is easy to implement or you can adopt your existing designs to it.

You can see a practically example and how to use it (and download it) here: https://youtu.be/\_qdGifwaOi4 or take a look on the finale picture to get an overview.

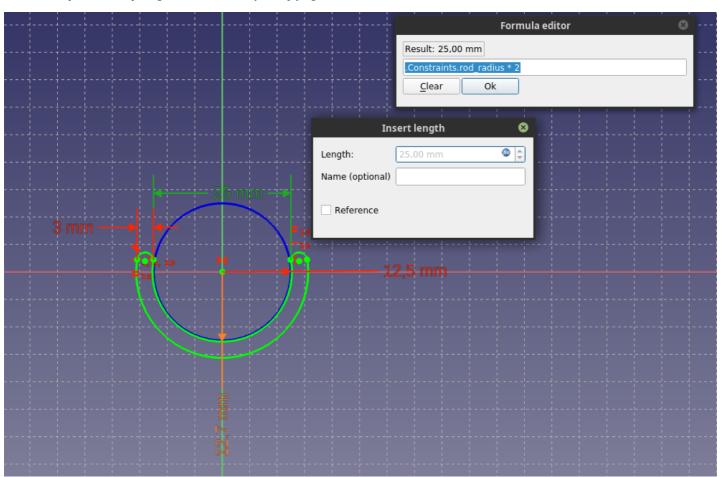
Things went easy when you have parametric design in mind and create at first a reference constraint (in this example the constructing geometry circle radius) and let other constraints point to it:



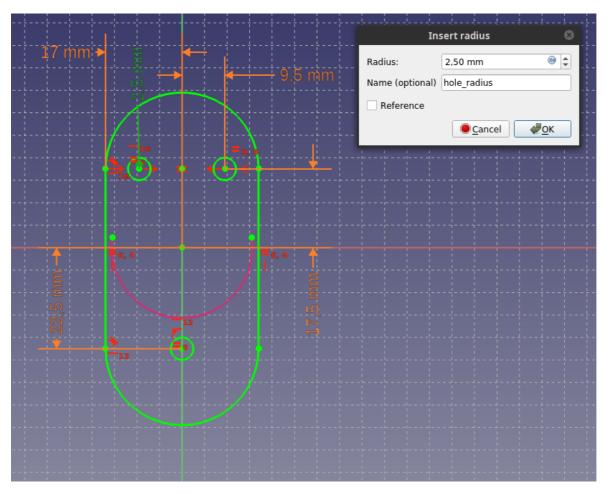
so the given radius is 12.5mm and the given name is 'rod\_radius', in the next step step we calculate the radius of the arc with a formula (you can define it by clicking the small round icon next to the value) '.Constraints.rod\_radius' points to the value for the circle radius that we set and named in the previous step. '.Constraints.rod\_radius + 0.2' gives a result of 12.7mm for the radius of the arc. If we have in mind to use a 25mm rod this give us a 0.2mm gap, but the opening of the mount shall be very tight and is therefor exactly like the rod-diameter (I had 3D-printing in mind while constructing). Please see below:



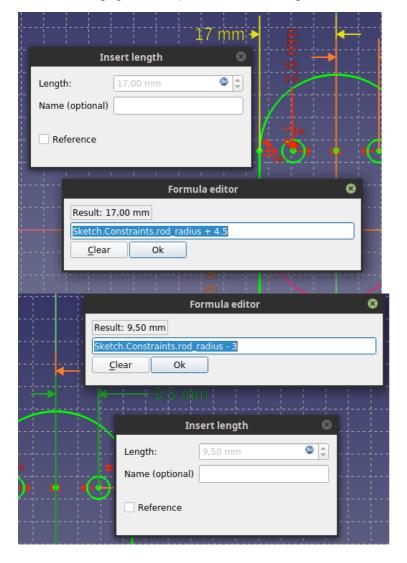
in the next step we set the opening for the rod mount by multiplying '.Constraints.rod\_radius' with  $2\,$ 

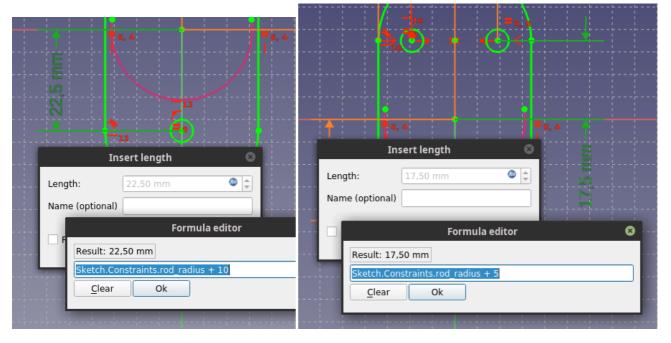


The radius for the holes get named too:

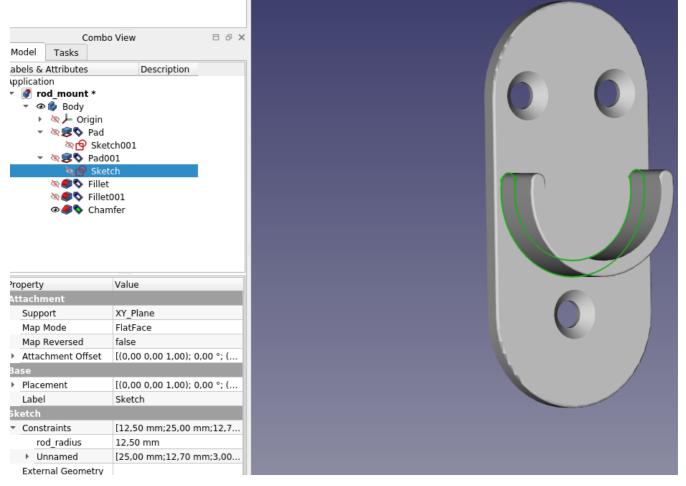


All values in orange (picture above) are all calculate referring to '.Constraints.rod\_radius' (see below):





Now you can simple adapt the design by changing the values of your named constraints by selecting the sketch in 'Data-Sketch-Constraints-rod-radius' and click 'Recompute' (take a look at the Youtube-Video at the beginning).



Hope this helps one or another © All the best to you

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