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Designed by Steve Good



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Note to commercial print employees: I give my permission to print as many of this pattern book as your customer requires.

steve@stevedgood.com

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General Pattern Information

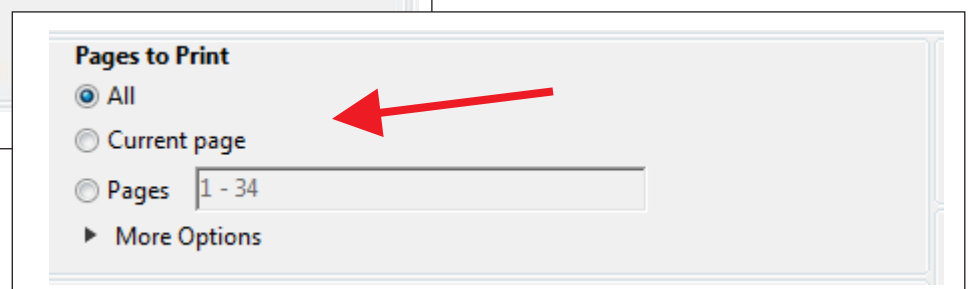
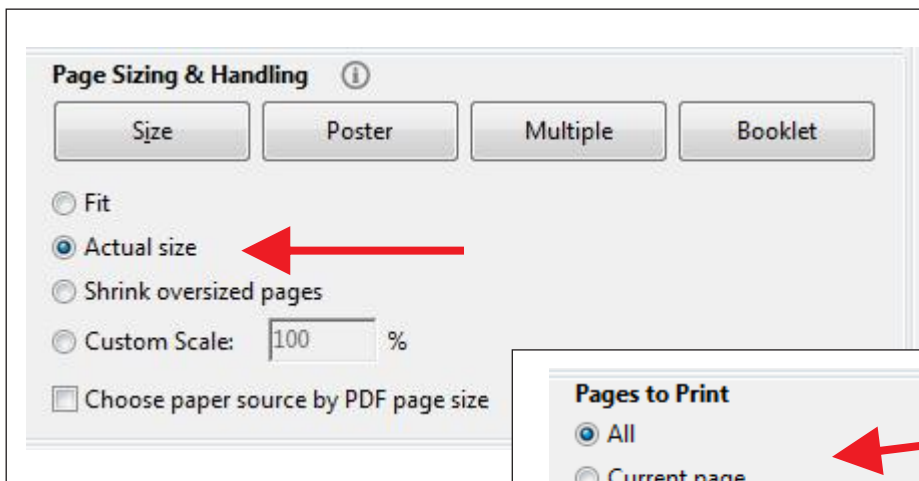
You may use this pattern to make as many of the project as you like. You are free to use any technique including mass production to build the project. The pattern may be copied and given to others provided the entire book is kept intact. You may not sell the pattern or include it in another commercial package of any type.

Steve Good retains the right to the pattern. If you have any questions about the use of this pattern please contact me at steve@stevedgood.com

When printing this pattern it is important to print it full size. When you bring up the print dialog box look in the “Page Sizing & Handling” section. Make sure the “Actual Size” is selected before you hit print.

You also only need to print the page/s you need. After the print dialog opens look for the “Pages to Print” section. You can print the current page or a range of pages. This will help save ink by not printing the title/instruction pages.

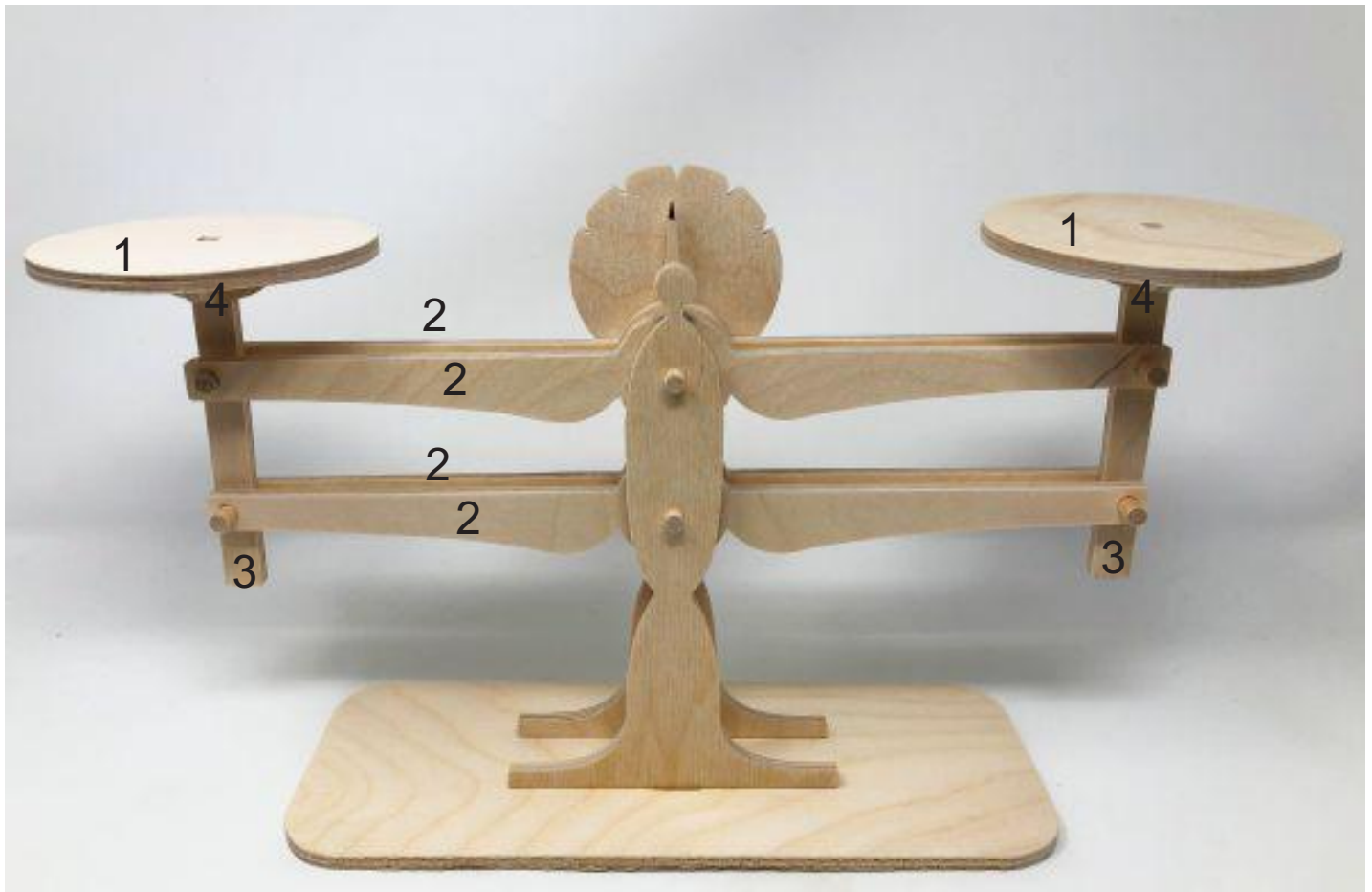
Printing Instructions



Balance Scale



There are limited assemble instruction. Make sure you read all the notes before you begin.



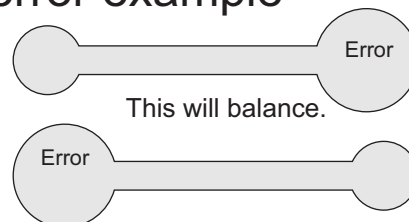
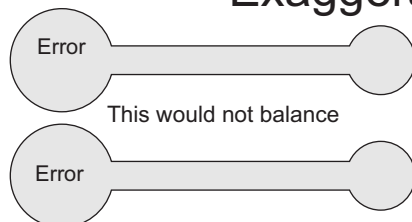
The balance scale is for close estimations of weight.

To make the scale as accurate as possible we will stack cut all equal parts.

1. Stack cut two trays.

2. Stack cut four arms. Only one arm has the needle. Cut all four with the needle then cut the needle off of three arms. If you reverse every other arm you will balance any cut error.

Exaggerated error example



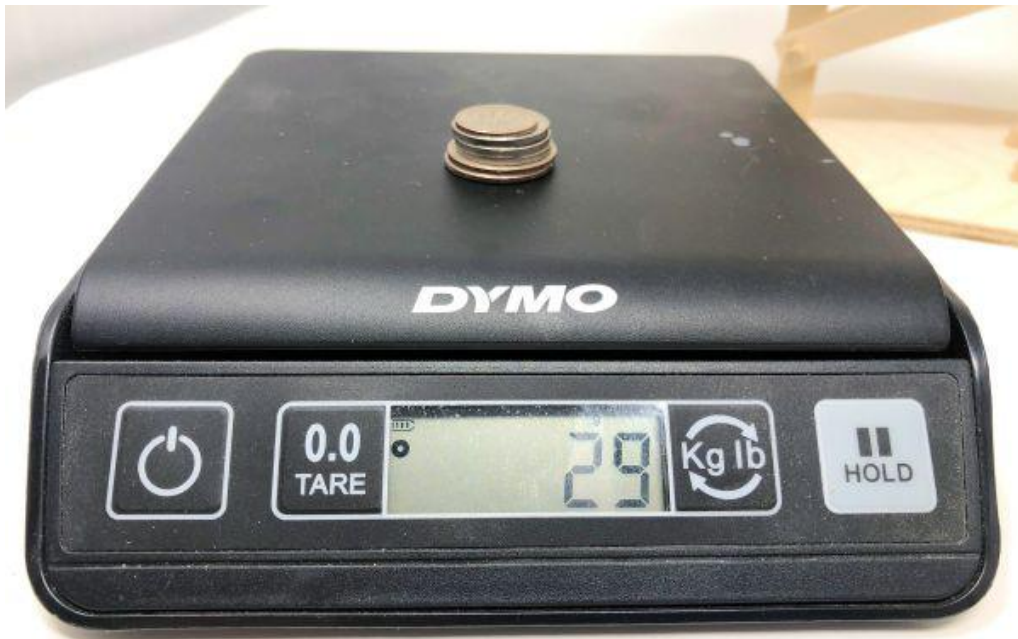
There are two diameter drill bits used.
 1/4" drill bit for tight fit of the 1/4" dowel.
 17/64" drill bit for a loose fit of the 1/4" Dowel.

Test with two similar objects before
you use the calibration weights.

This needs to balance.

If you have trouble here then
you may need to glue small pieces of plywood
under one of the tables.





You can use coins as

Quarter 5.6g

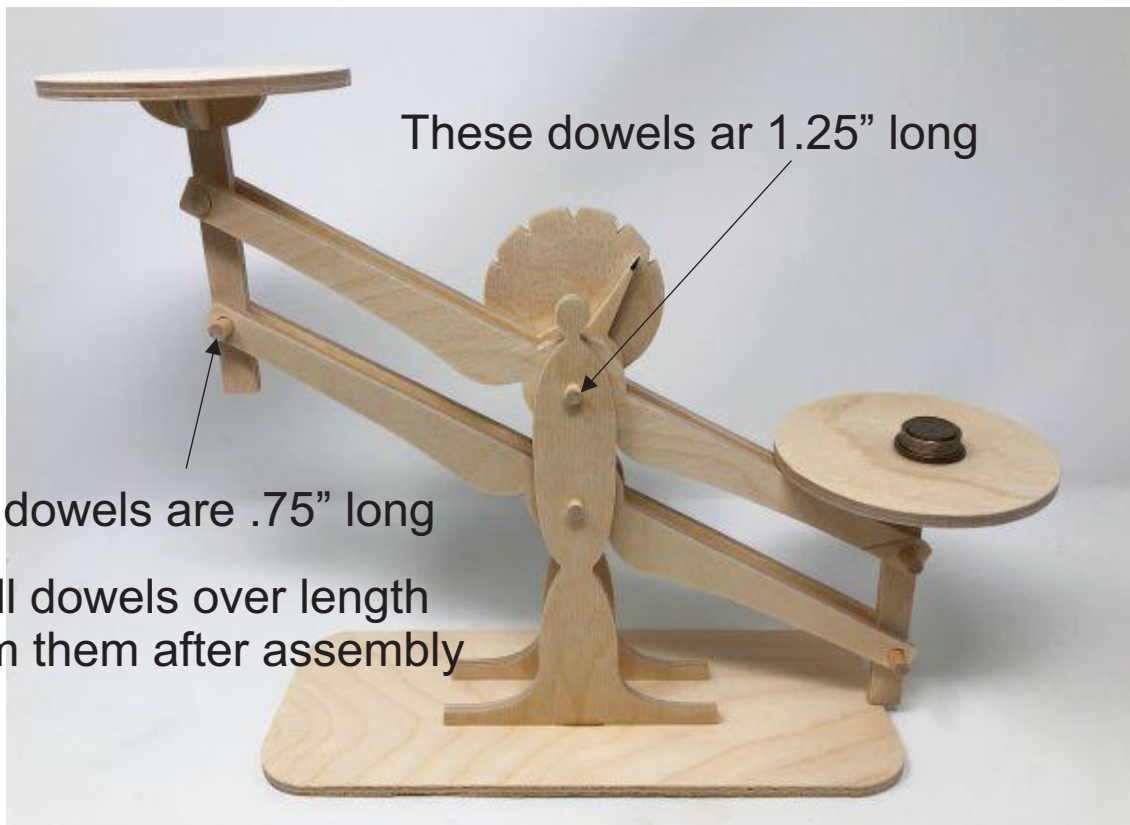
Nickle 5g

Dime 2.3g

Penny 2.5g

You can buy a calibration weight set on Amazon. [Click this link.](#)



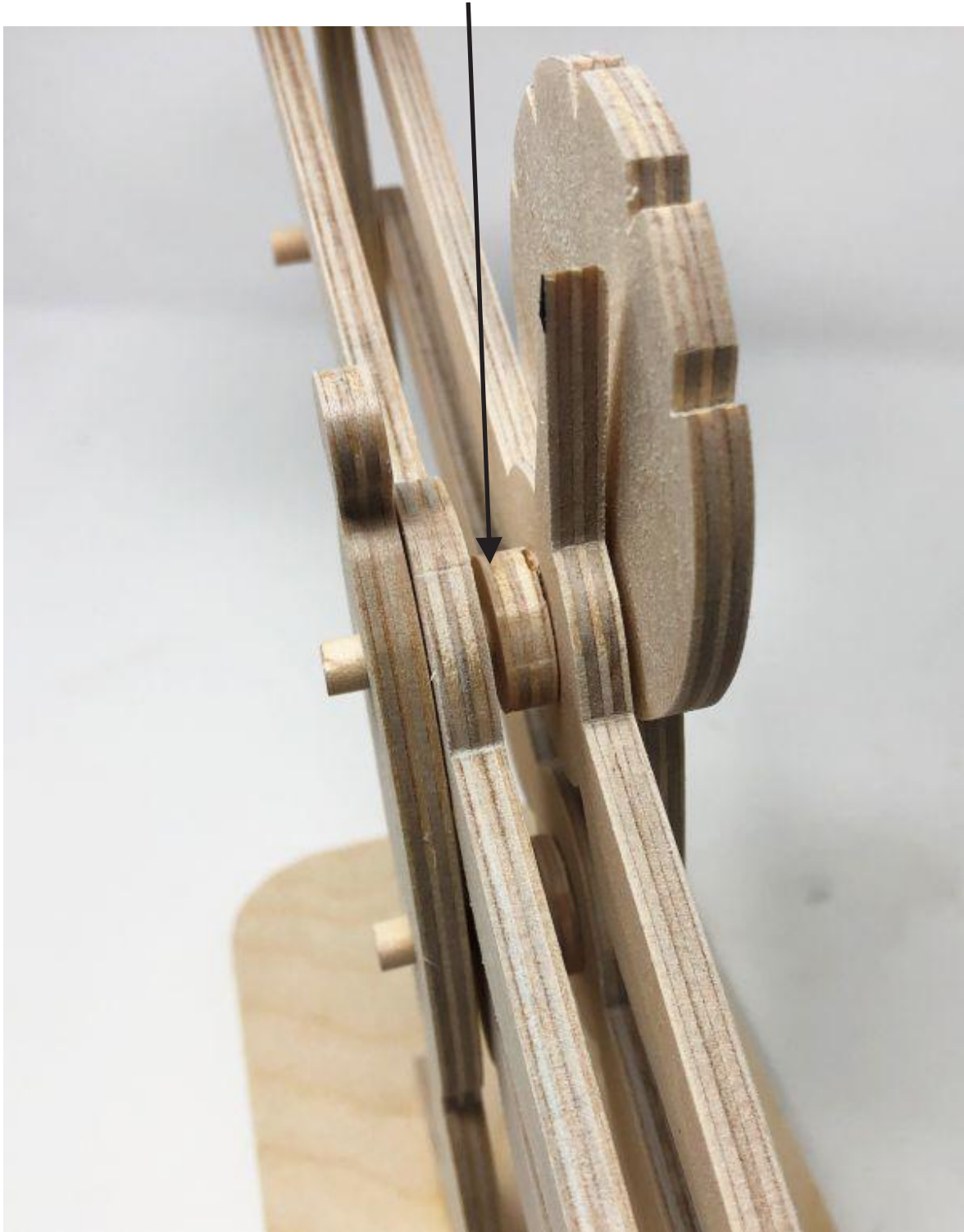


The total of the coins weigh 28.5g
 The magnet set weigh 28g
 They balance.



All dowels are 1/4" diameter.

Bearings between arms for separation.
Do not pinch the arms during assembly.
Everything needs to move smoothly.

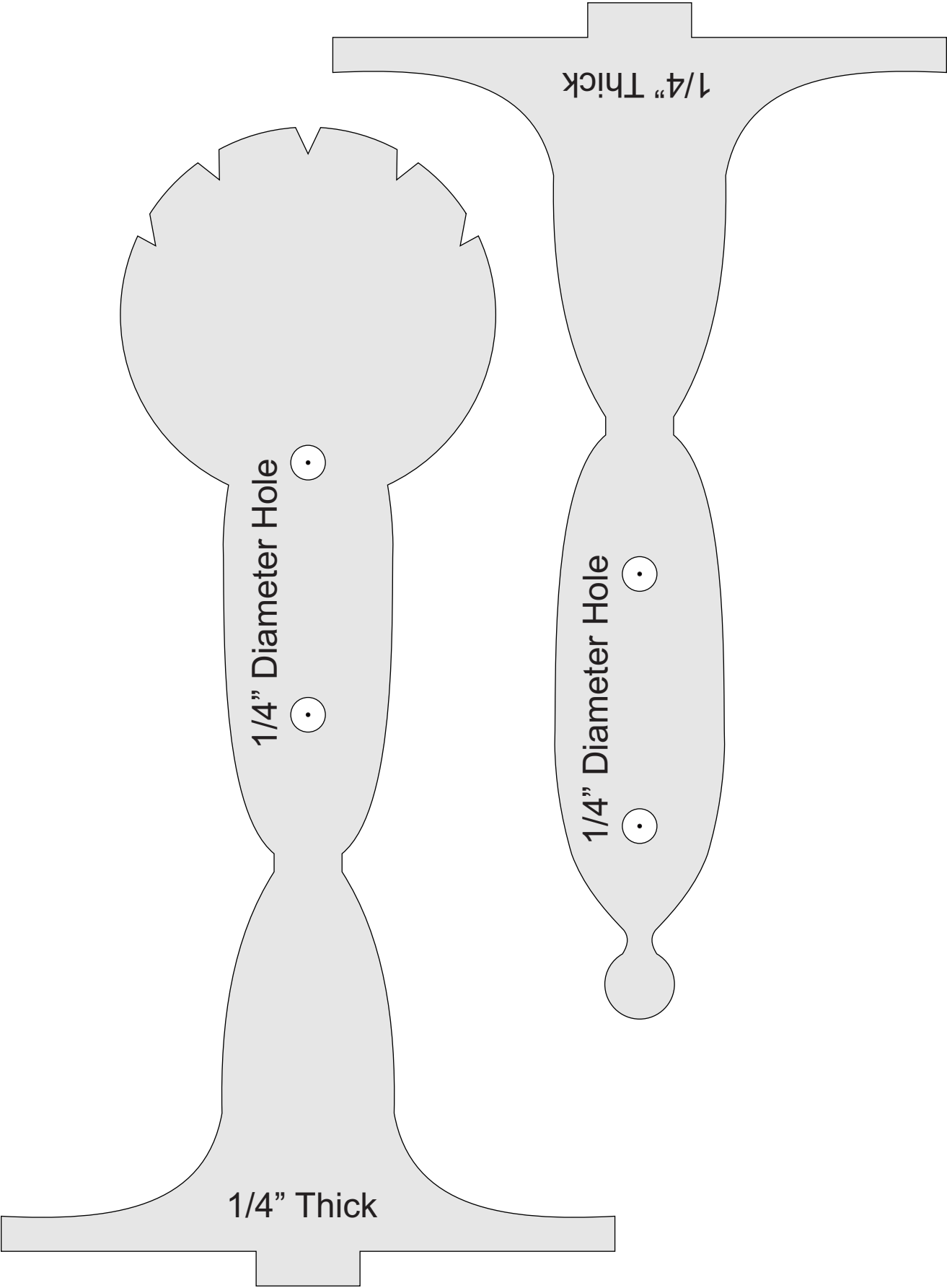


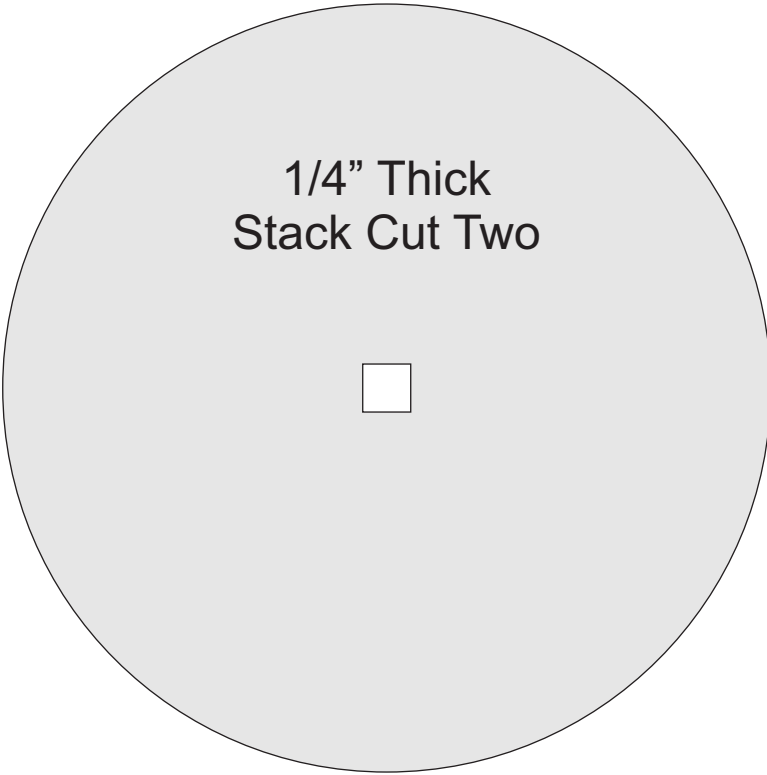
Paint the needle tip black. You can use the needle to help estimate how much difference there is between the reference weight and the object. Remember that we are just getting a close estimation of the weight.



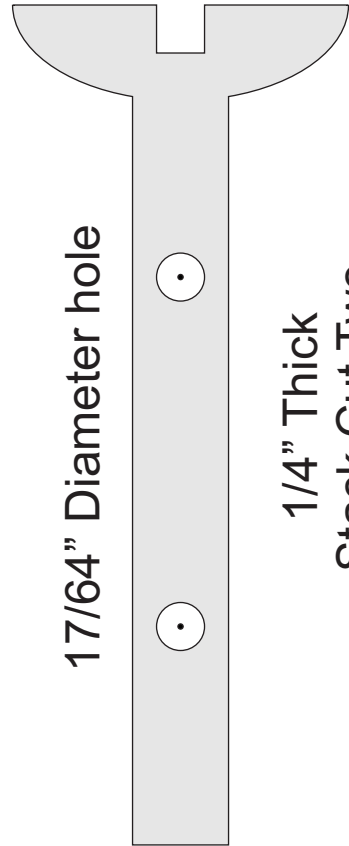
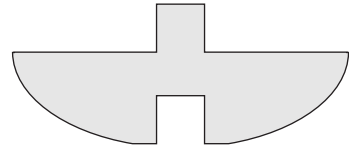
Here is a look under the tray.







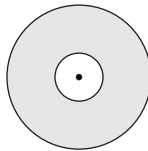
1/4" Thick
Stack Cut Two



17/64" Diameter hole

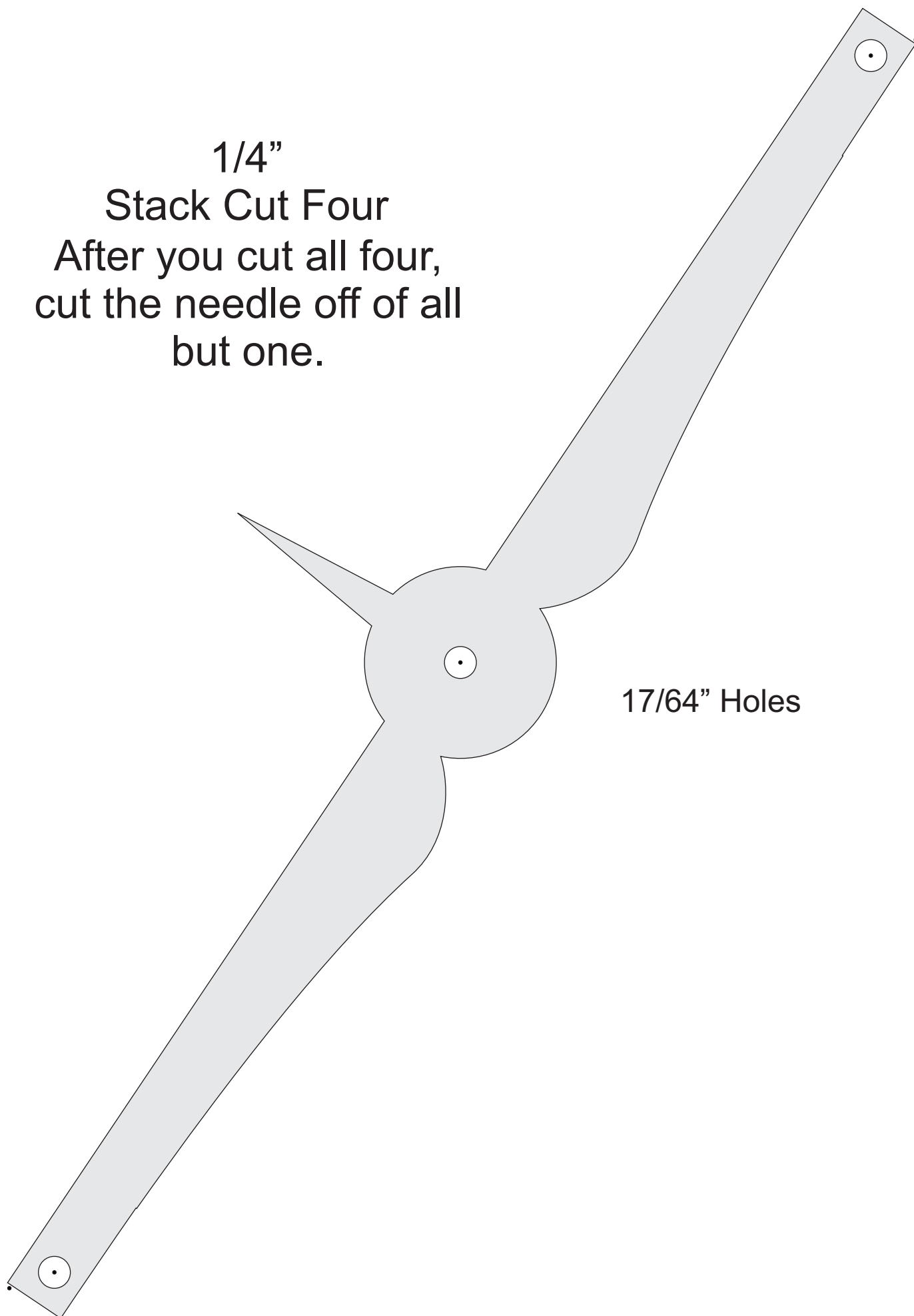
1/4" Thick
Stack Cut Two

1/4" Diameter Hole



1/4" Thick
Stack Cut Two

1/4"
Stack Cut Four
After you cut all four,
cut the needle off of all
but one.





1/4" Thick Base.

