

Bouquet Box to Vase

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Made by Keisuke Omori

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NOTE

- This instruction shows an example how to process the box from a LEGO BOTANICALS bouquet set to craft a vase with flower pattern.
- Lengths are measured in metric units.
- This instruction uses LEGO 10342 Pretty Pink Flower Bouquet. The same size box is used for other bouquets, so it can be applied.



And future
bouquet sets

Necessary Tools

- Pencil
- Paper (Anything is fine, such as copy paper.)
- 30cm ruler (It is convenient to have short ones.)
- Cutter (For detailed work)
- Cutter mat (30cm or more long)
- Black oil pen
- Glue gun (Fine-tipped)
- Glue sticks (Transparent ones for handicrafts are better.)



In addition to these, if you have a right-angled isosceles triangle ruler, you can easily measure 45 degree angles.

Before Crafting

- Please finish building the bouquet first.
- The depth of the vase



Grab the bouquet and look at it from the side.

The main floral decoration part of the bouquet. The height of the vase (described on the next page) should be the same as this width, or slightly shorter.

The length of the stem that should fit into the vase = the depth (D) of the vase.

- The height of the vase

Cut open the box and unfold it. You can make two vases from one box. The vertical width of the part to be used is the height (H) of the vase. For the following explanations, use the left one.

The width of 15cm matches the photo and is suitable for use.



The width of 20cm is full of flowers and suitable for use.

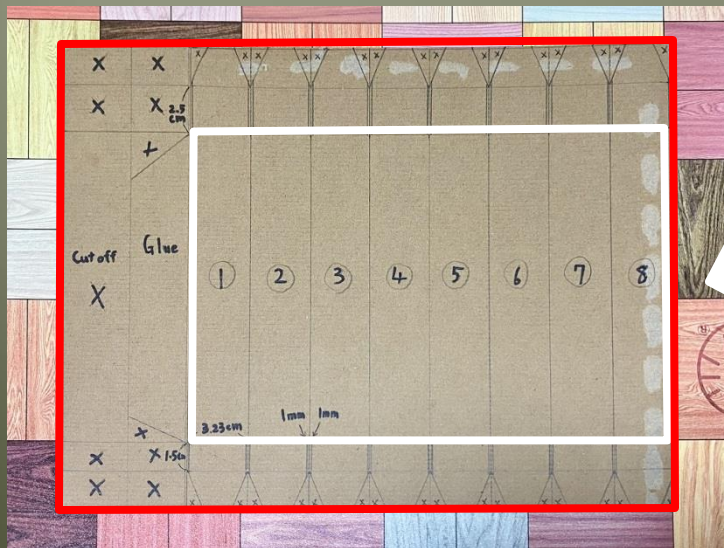
For a slightly short vase with a photo on it.

For a long and beautiful vase.



Design

- The depth of the bottle should be shorter than the height of the bottle. ($H > D$)
- To make the vase more durable, it has a folded structure at the top and bottom. Therefore, in addition to the part used for the sides, a width of 3.5 to 5 cm is required at the top, bottom and one of sides to include the folded part.
- Later, you will write a blueprint like the one below on the back. Cut the material with this in mind.



- Take parts for crafting materials



Cut lines.



Not used



(Used for the other vase, ignore this)

Board that becomes the main body



Board for cutting out the top and bottom plates

- Calculations for design

The width of the main material plate is 25.8cm

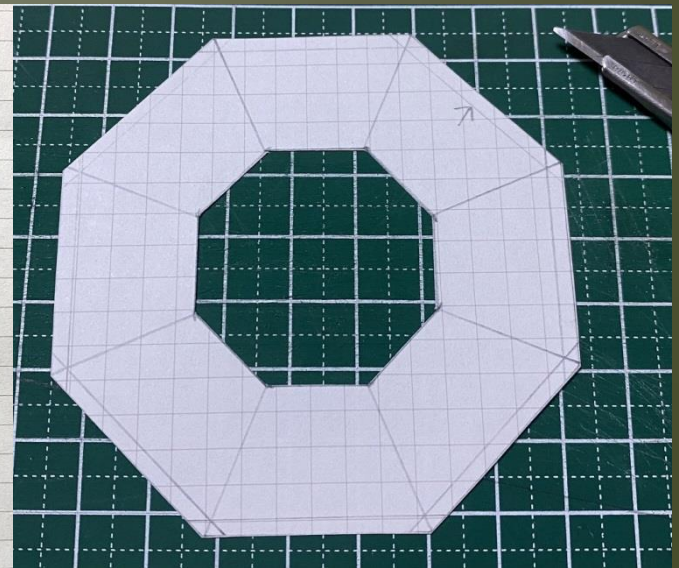
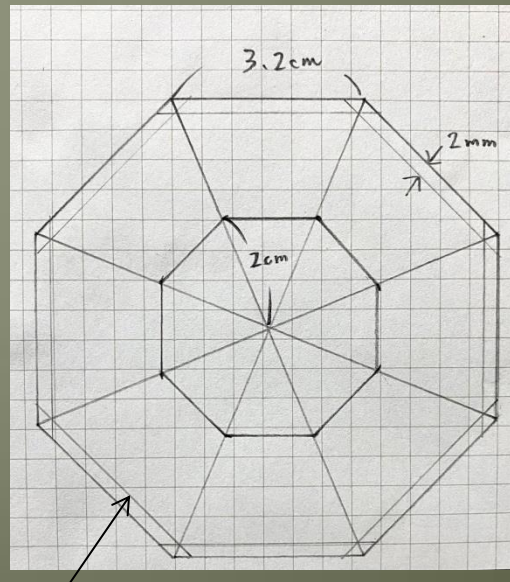


The length of one side of the octagon is 3.225 ($\doteq 3.2$) cm.



Make a octagonal ruler to easily guide the accompanying trapezoid.

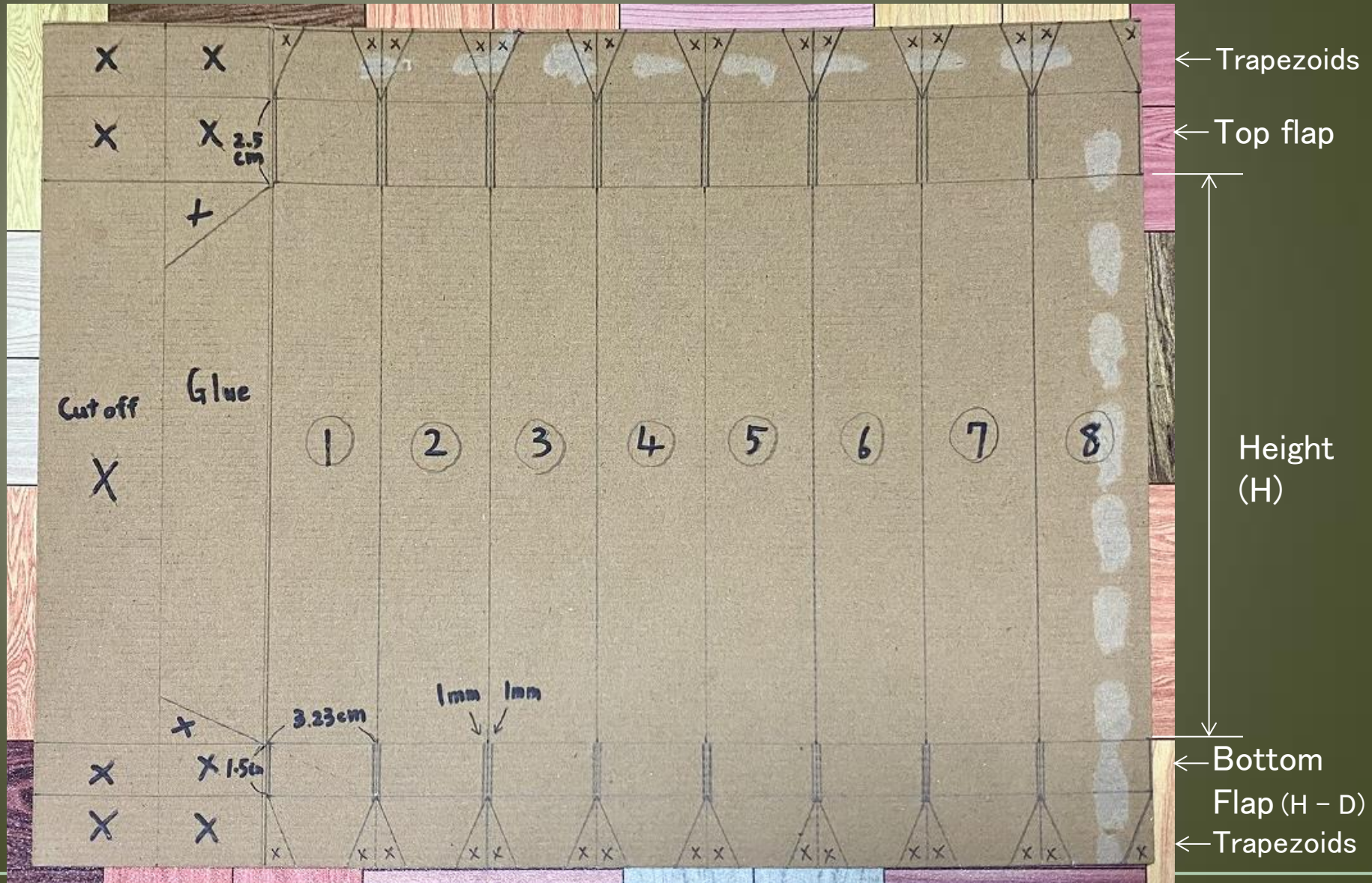
Considering the number of stems to be inserted, the diameter of the opening of the vase should be around 4cm, so measure and cut out a radius of 2cm.

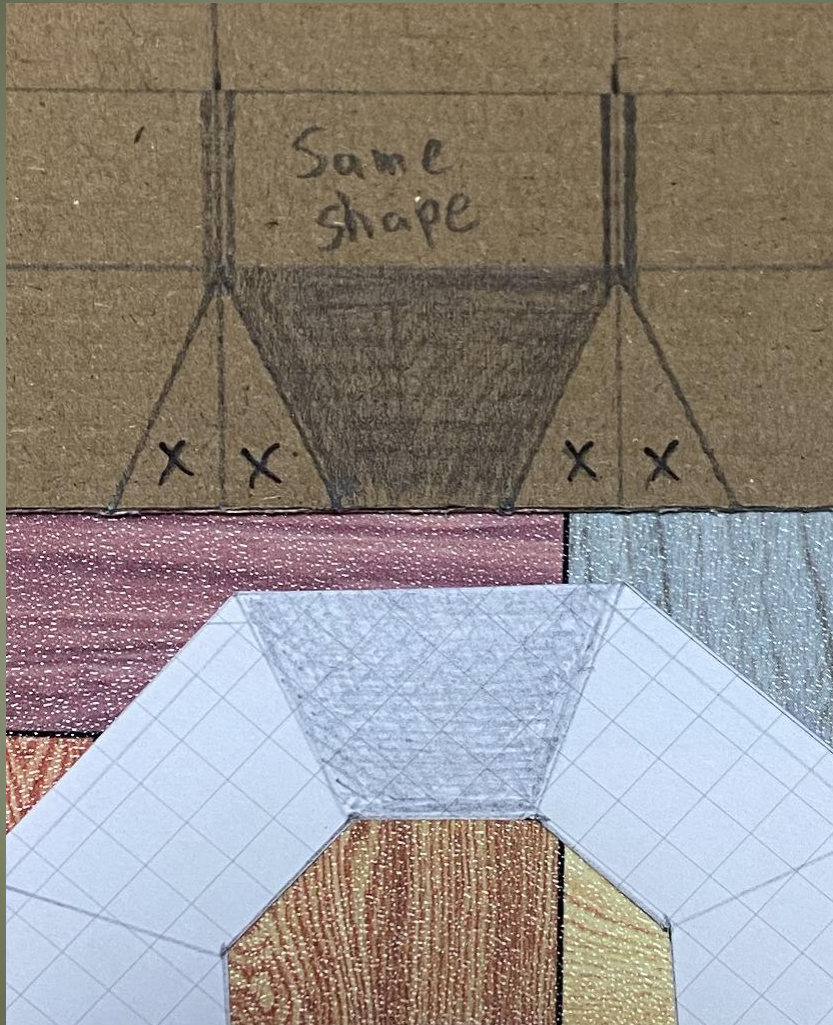


To reduce the size later, draw lines 2mm inside.

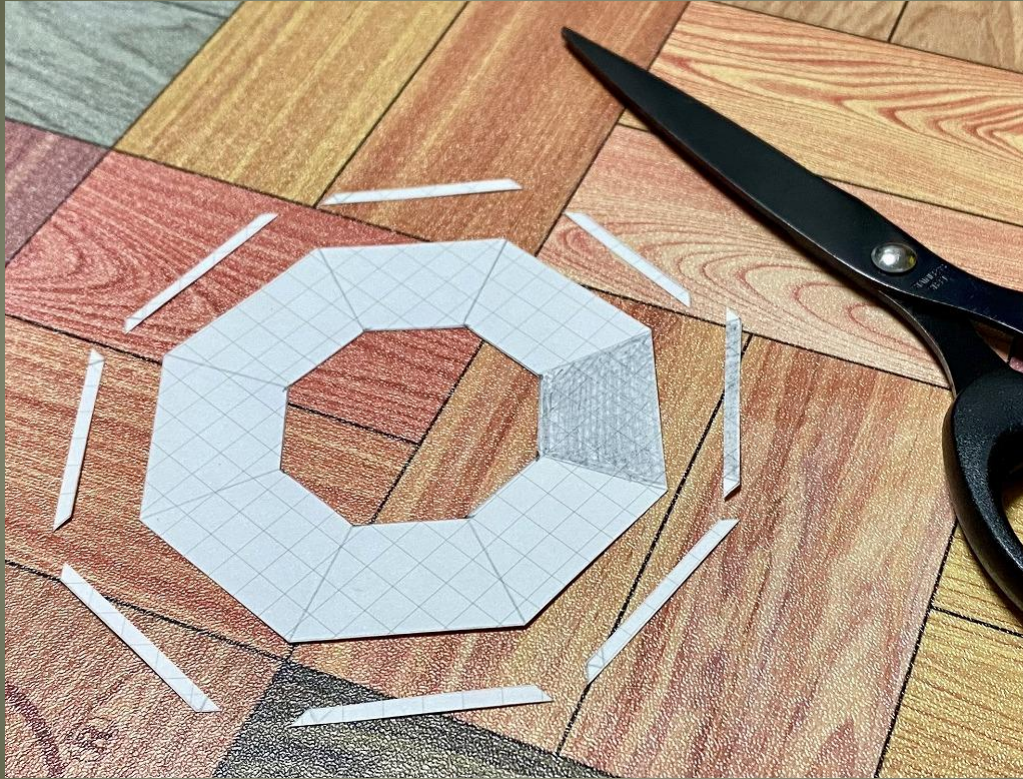
Drawing blueprints

Remove glue clearly and draw lines as below.
Check the front and back sides to make sure
you don't mistake the position.





The trapezoid part will have the same shape as the ruler. Copy it.



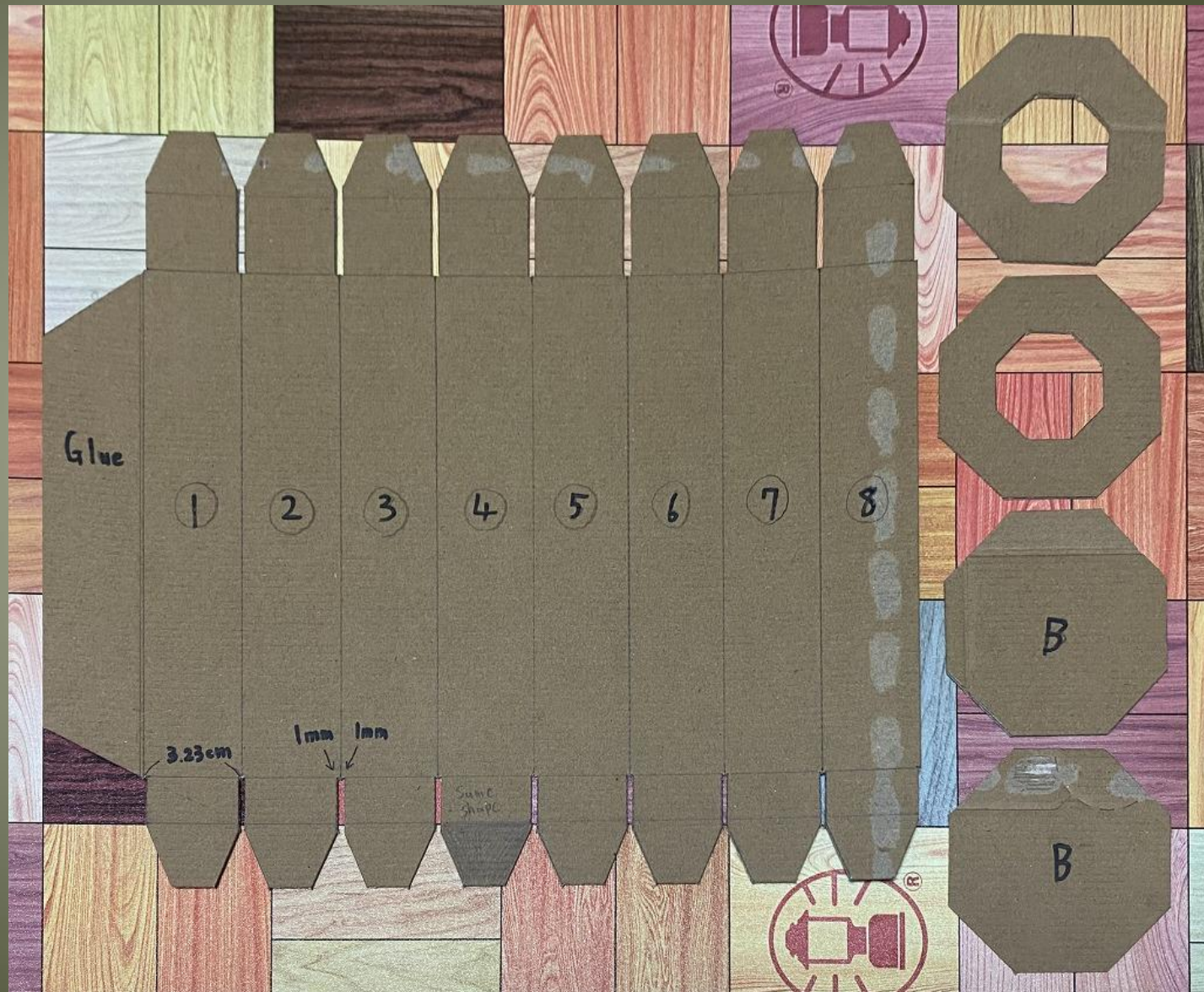
Please downsize the ruler before proceeding with the next process.

Copy the top (A) two and bottom (B) two. Trace the mouth of the vase on the top.



Cut Out

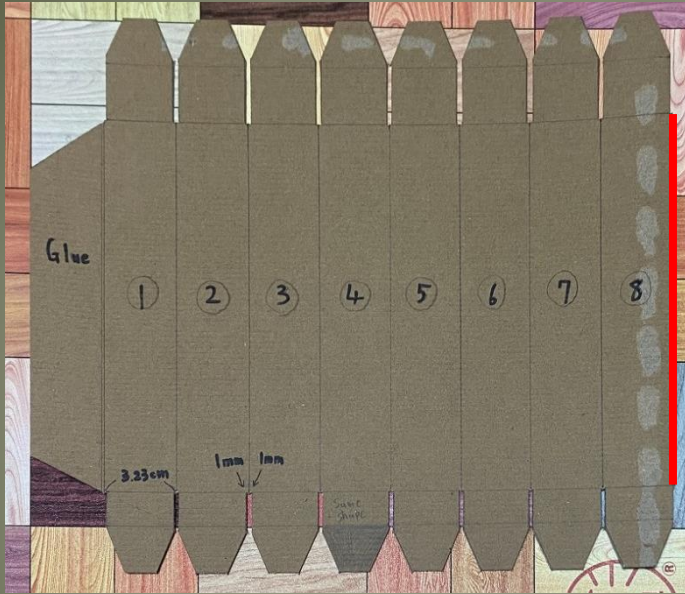
Cut them out neatly according to the design.



The front side will look like this.



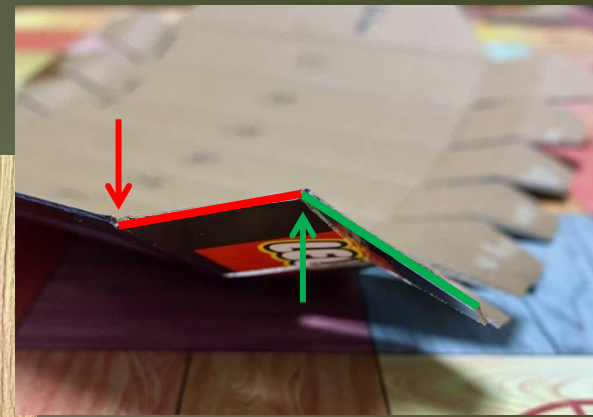
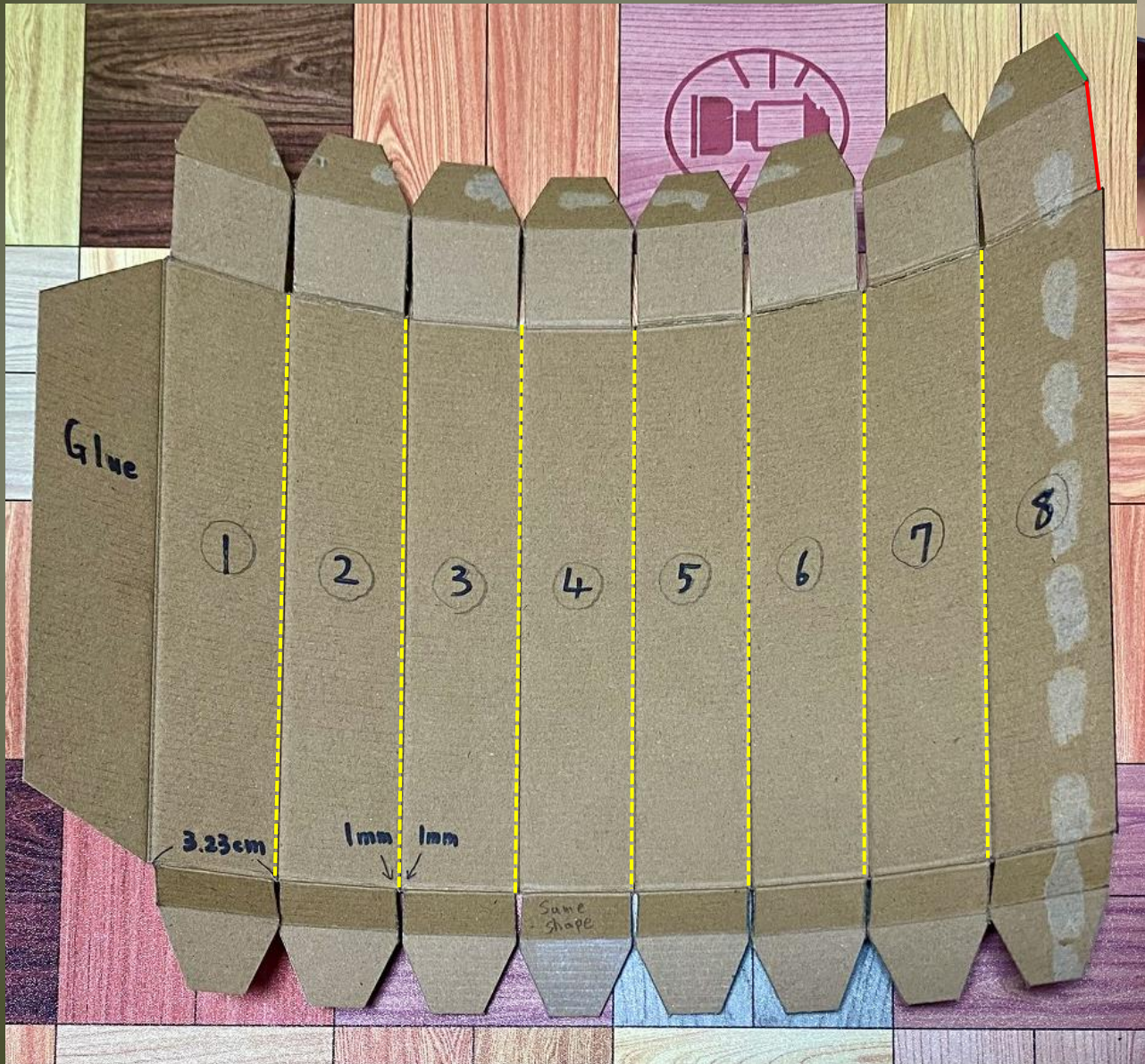
Black coloring on an edge



Color the side edge of number 8 black with a pen. The cardboard cutout is a bright color, so this part that will be exposed when completed will be less noticeable.

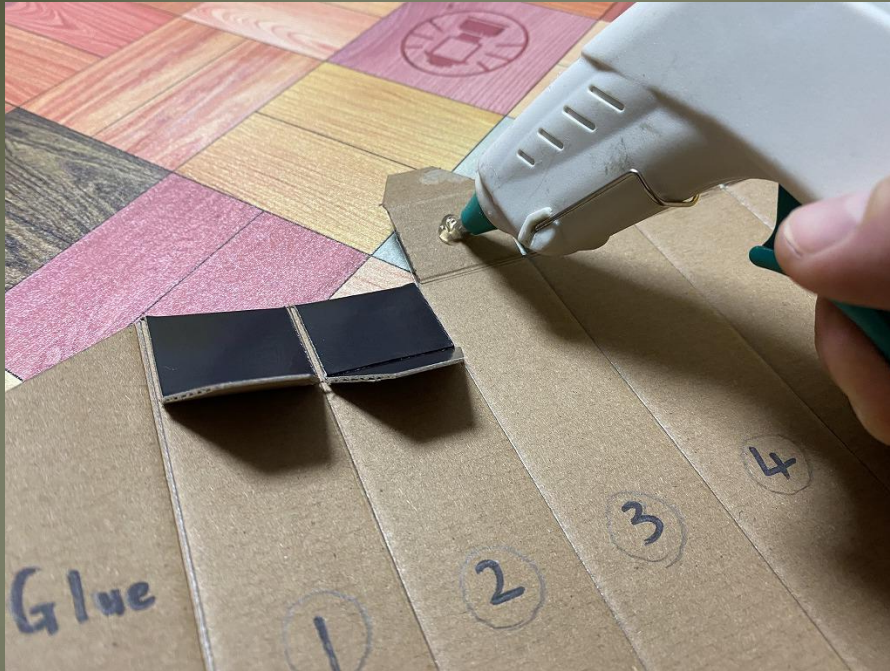


Make creases



Using a cutter with stored blade or something the tip is not too sharp, trace a line to be bent for each part to create a crease. However, to avoid cracking the front side picture, do not bend the yellow line more than 45 degrees.

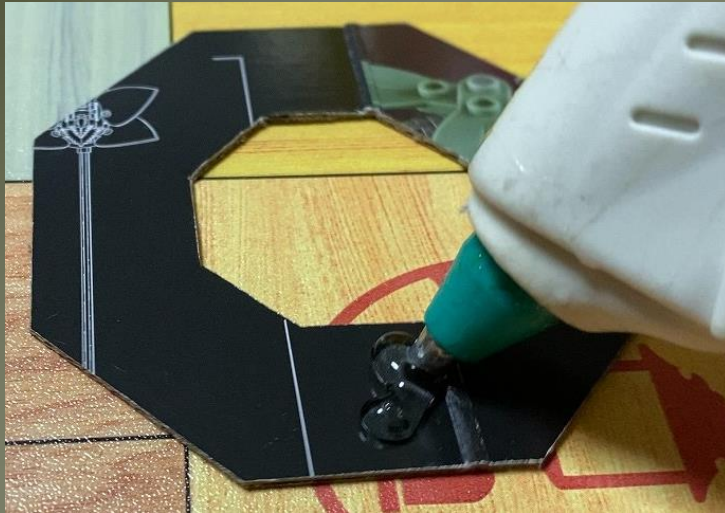
Flapping



Secure the flaps of panels 1 to 7 using glue. Be careful not to fold it diagonally. This may cause wobbling, especially at the bottom.



Assembly



Attach the octagonal plates from the inside in order from No. 1 to No. 6. If you glue one side first, it will be difficult to glue the other side. Please pay attention to the difference between the top and bottom.



After gluing up to No. 2

After gluing up to No. 4



After gluing up to No. 6





After gluing up to flap No. 6, add the largest amount of glue on the sides to make the entire tube into an octagonal shape. Correct any misalignments quickly before the glue hardens.

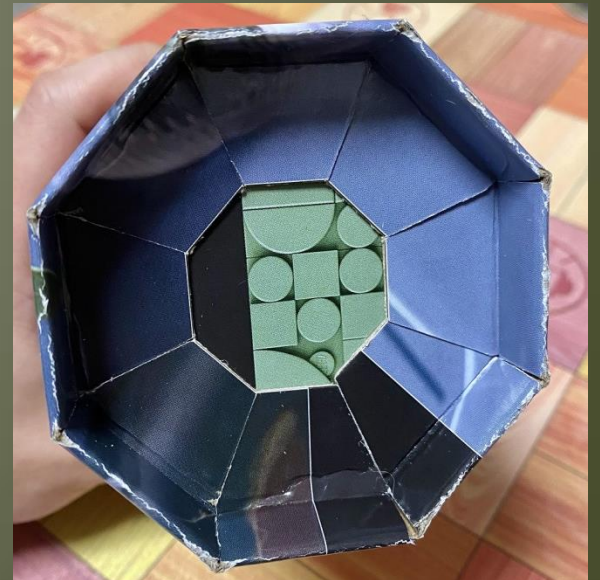




Glue flap No.7.
It's a little difficult to do.

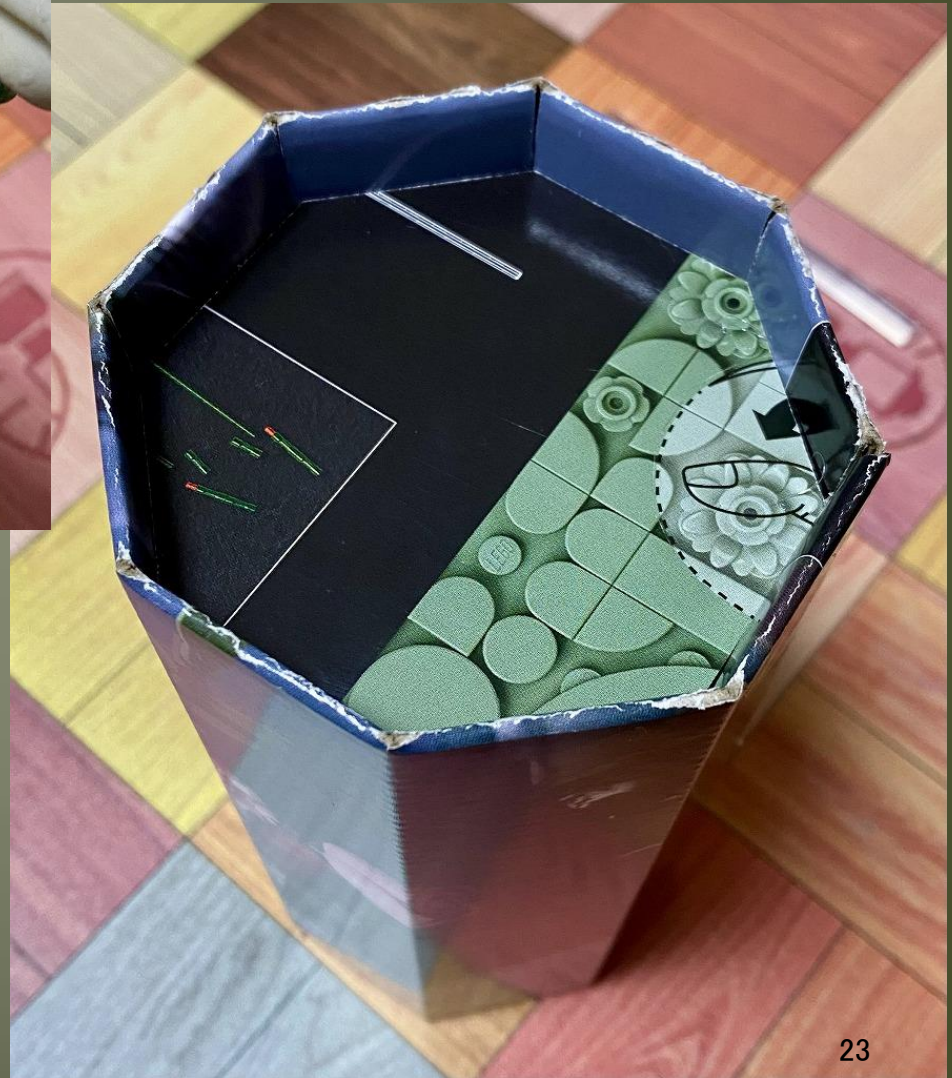


Glue flap
No. 8.



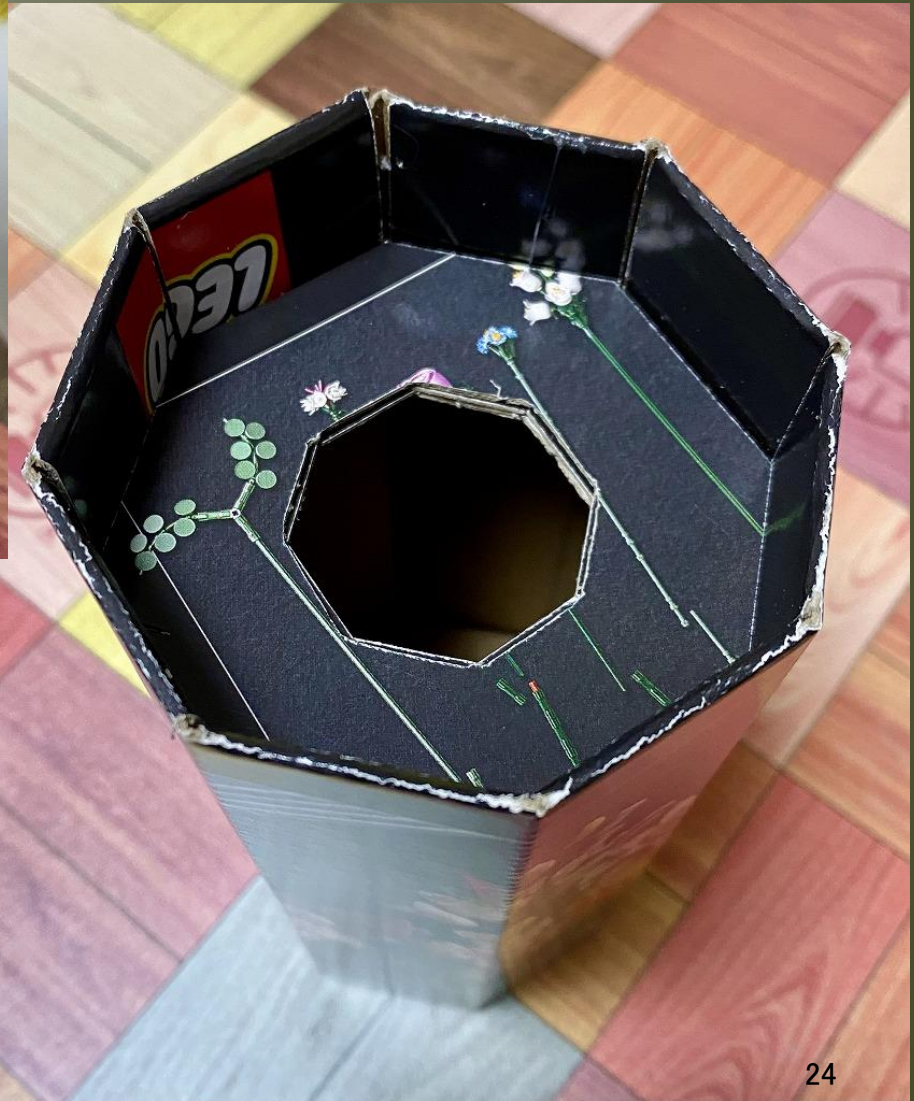


Glue the outside bottom plate.

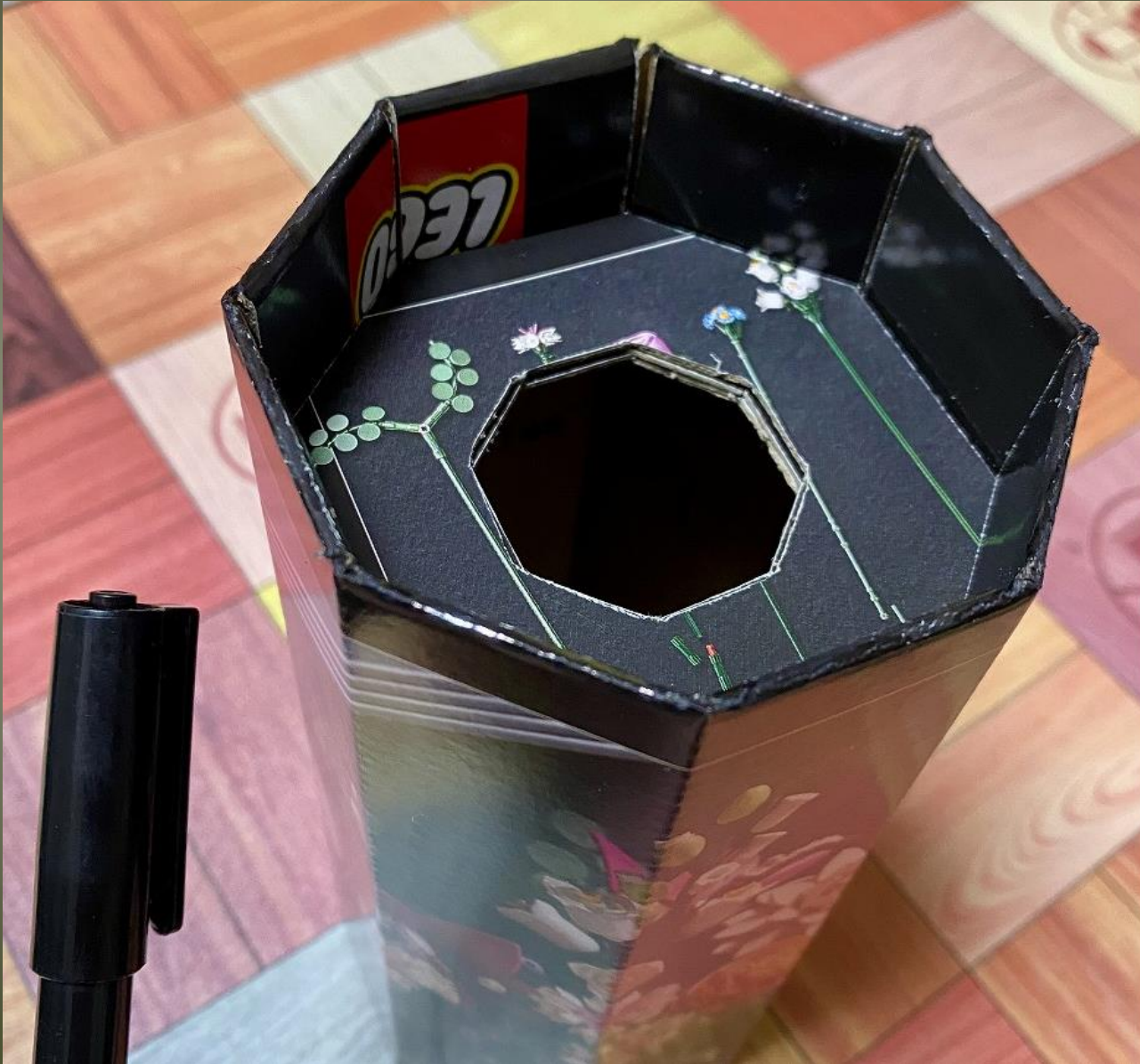




Glue the outside top plate.



Crack repair



Use a black pen to make the non-black parts that were unavoidably torn at the top fold less noticeable.

Completed!



You can proceed to the other one!

The method is almost the same.



Thank you for trying this craftwork.
I hope your happy LEGO BOTANICALS life.
If you got something opinion with this PDF file, please let me know.
Keisuke Omori

Actually, I' m a Technic MOC (My Own Creation) designer in Rebrickable.com.
Some of MOCs are made for BOTANICALS.
Please check them.



And other all works

