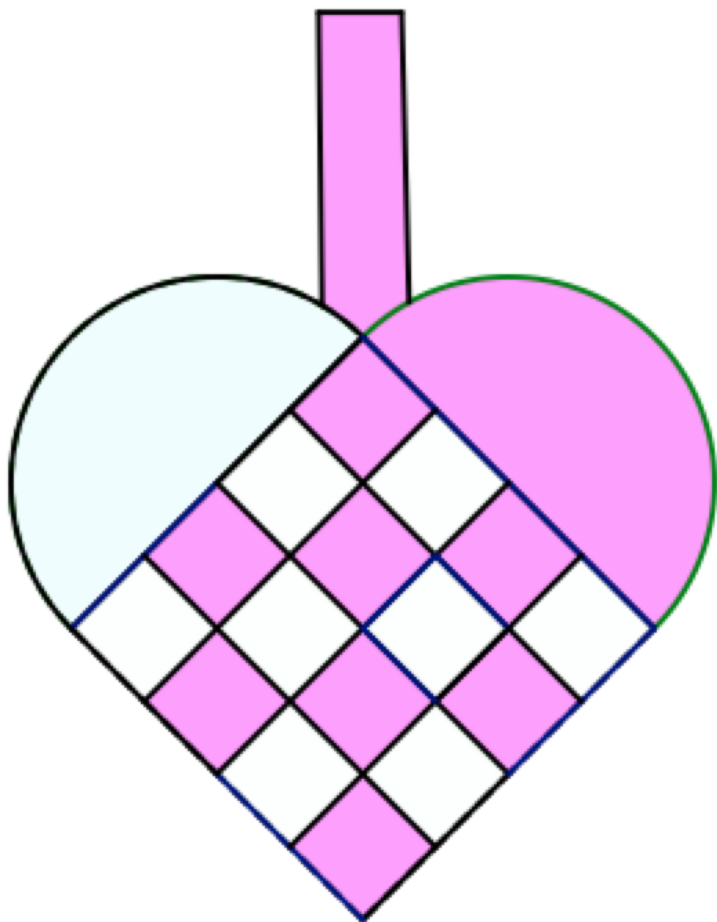


Julekurve AKA Valentine Basket

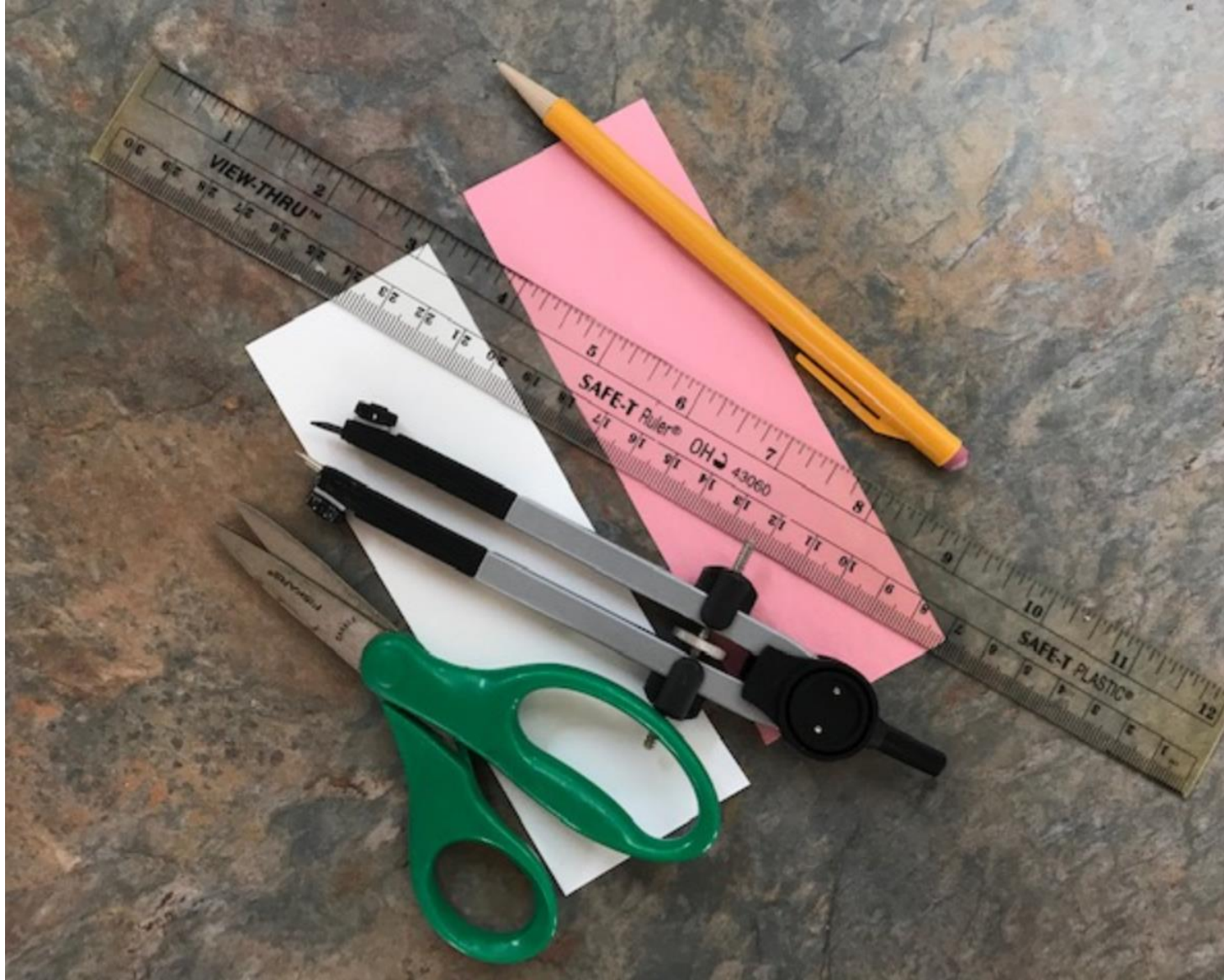


The julekurv is a Norwegian Christmas basket which is usually made from straw or a flexible high-gloss paper. Norwegians hang these baskets filled with sweets on their Christmas trees. But because they are heart-shaped, they also make nice Valentine baskets.

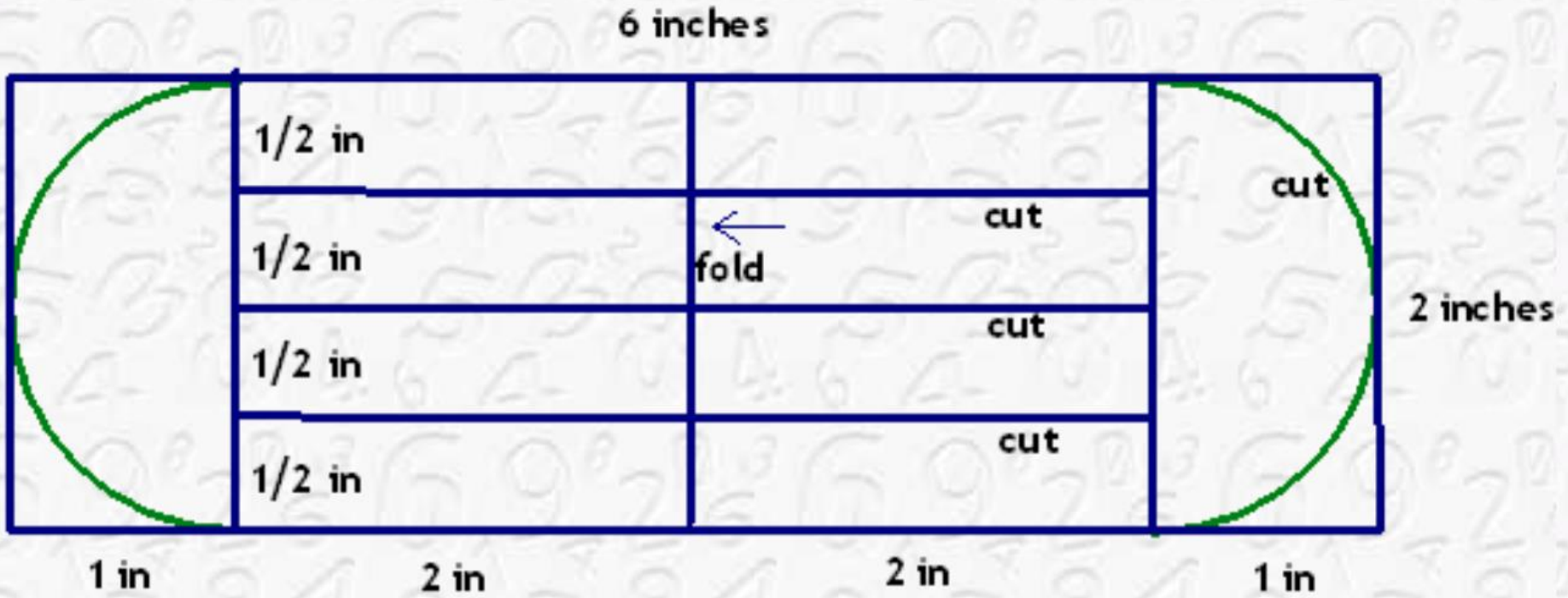
This unit is adapted from a lesson, Julekurv, in Kraus, Marina C. (2000). *Multicultural Mathematics Materials*, 2<sup>nd</sup> Edition. Reston, VA: National Council of Teachers of Mathematics. ISBN: 0-87353-487-5 pbk.

# Materials

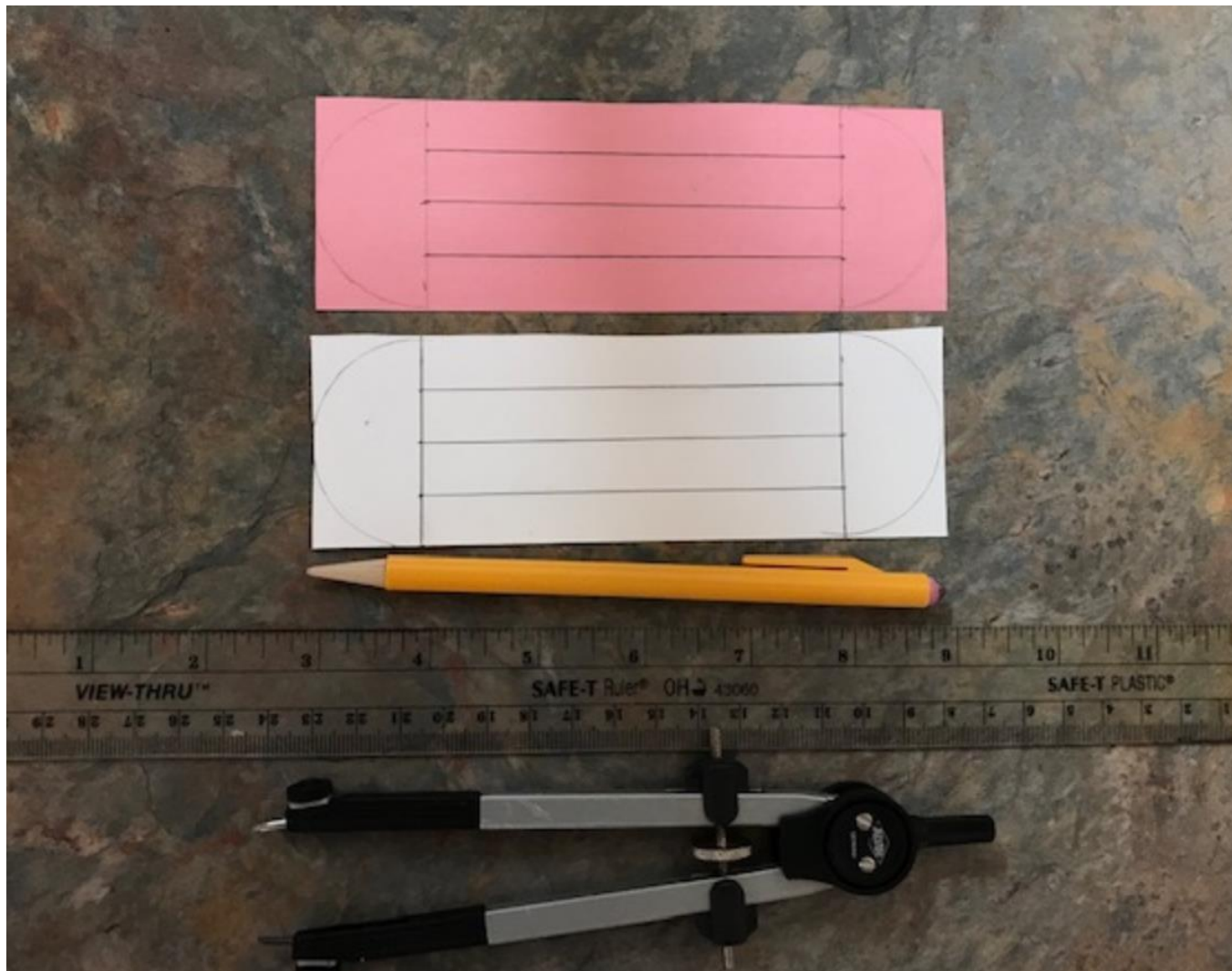
- 2 rectangular strips of different colored construction paper, 2 inches by 6 inches (we used pink and white).  
By trial and error we learned that origami paper, which is smooth and glossy, is easier to work with than typing paper.
- pencil
- ruler
- scissors
- compass
- for the handle: paper strip(s), scotch tape, glue (optional)
- patience!



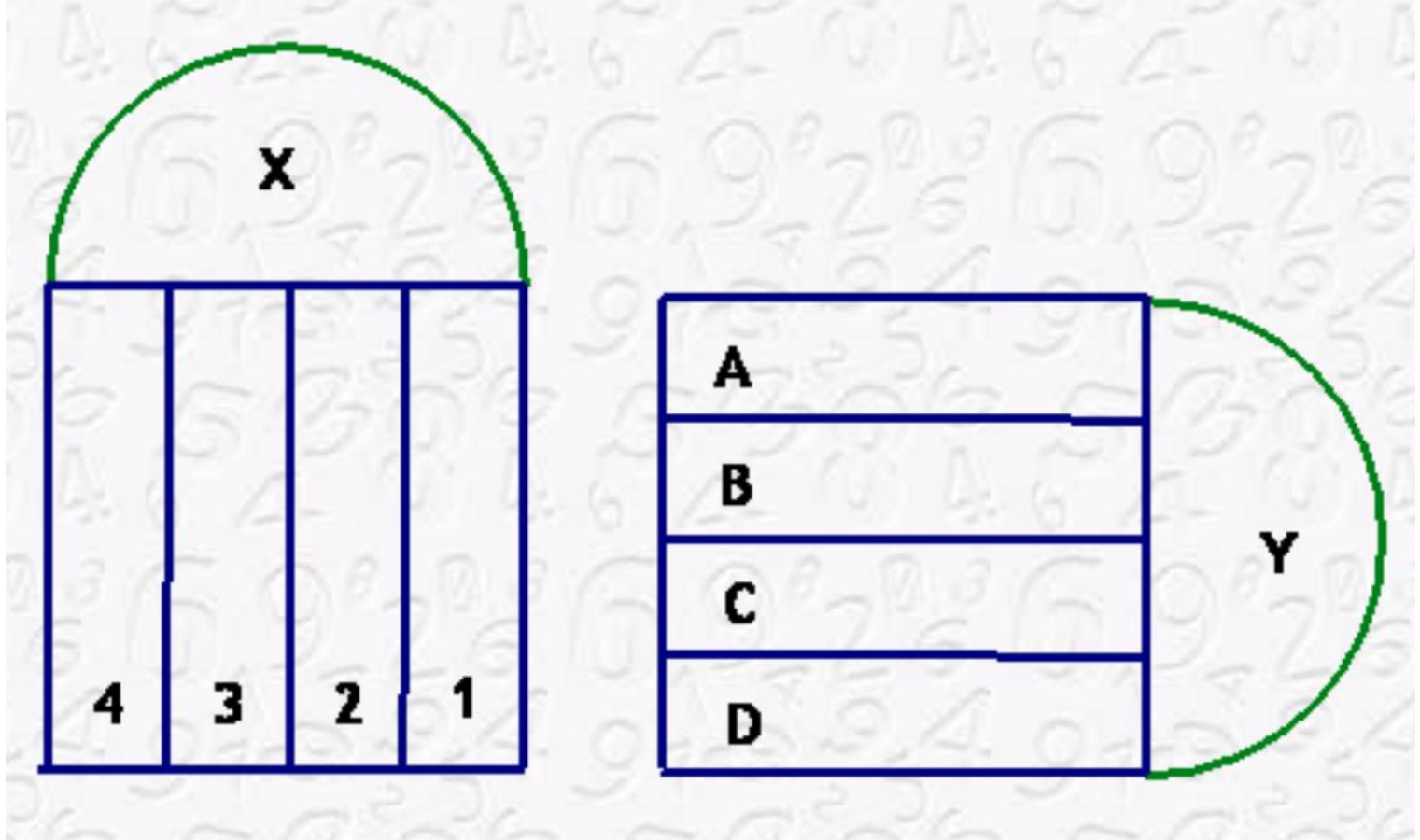
Materials: two 2" by 6" rectangles, pencil, ruler, scissors, compass



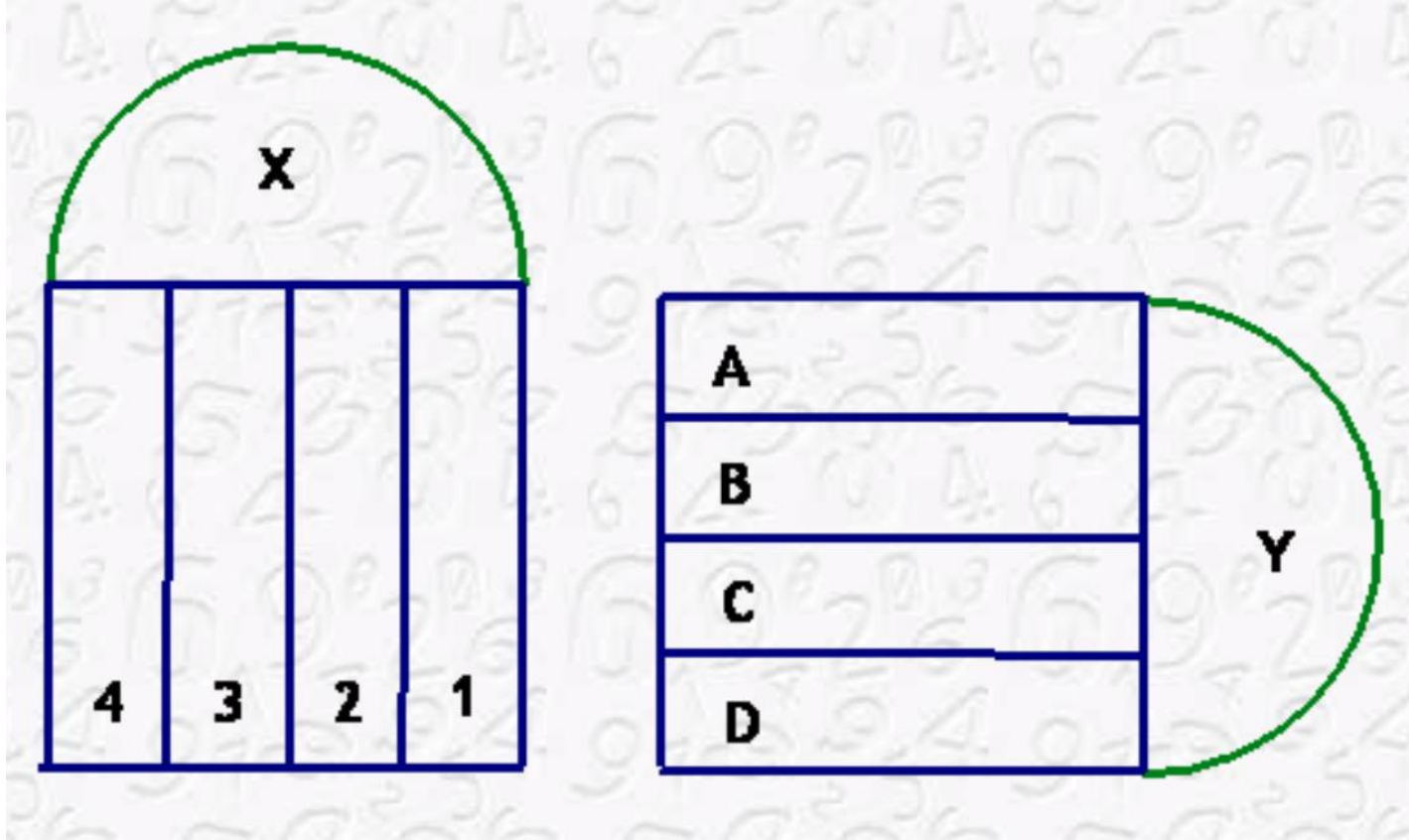
Make this pattern on each rectangle: two half-circles (radius one inch) and two squares (with side lengths of two inches). Use a compass to draw the half circles. On each square, draw three horizontal segments, one-half inch apart, and each four inches long, and cut along the three segments. (You can do this to both rectangles at the same time.)



Identical patterns are drawn on the 2" by 6" sheets. You may also draw a center vertical line. Dimensions are given on the previous slide.



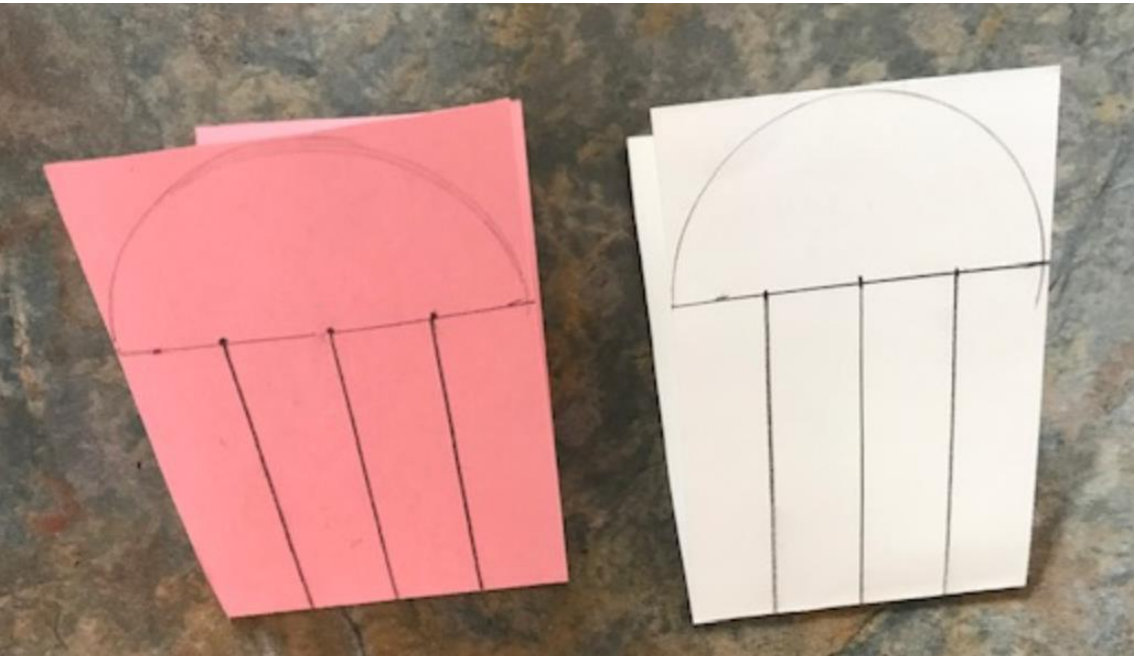
Orient the two folded pieces as shown. We label them X and Y.



To weave the two pieces together:

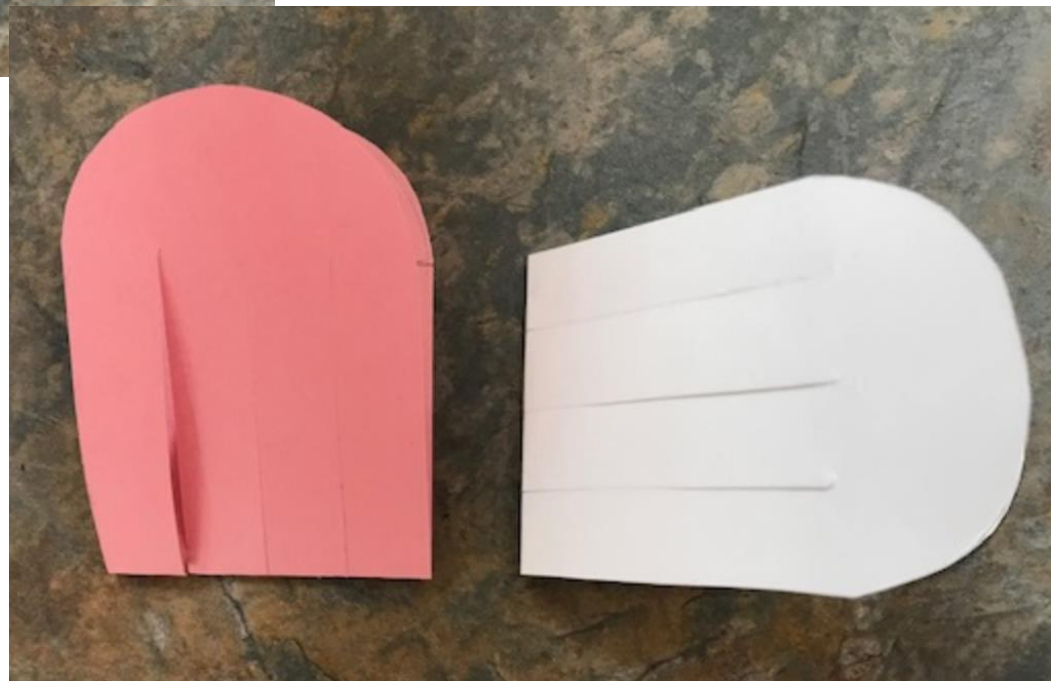
1. Place A inside 1, 2 inside A, A inside 3, and 4 inside A. One row is woven. Slide this row to the top of the three line segment cuts in piece X.
2. Place 1 inside B, B inside 2, 3 inside B, and B inside 4.
3. Place C inside 1, 2 inside C, C inside 3, and 4 inside C.
4. Place 1 inside D, D inside 2, 3 inside D, and D inside 4.
5. Attach a handle.

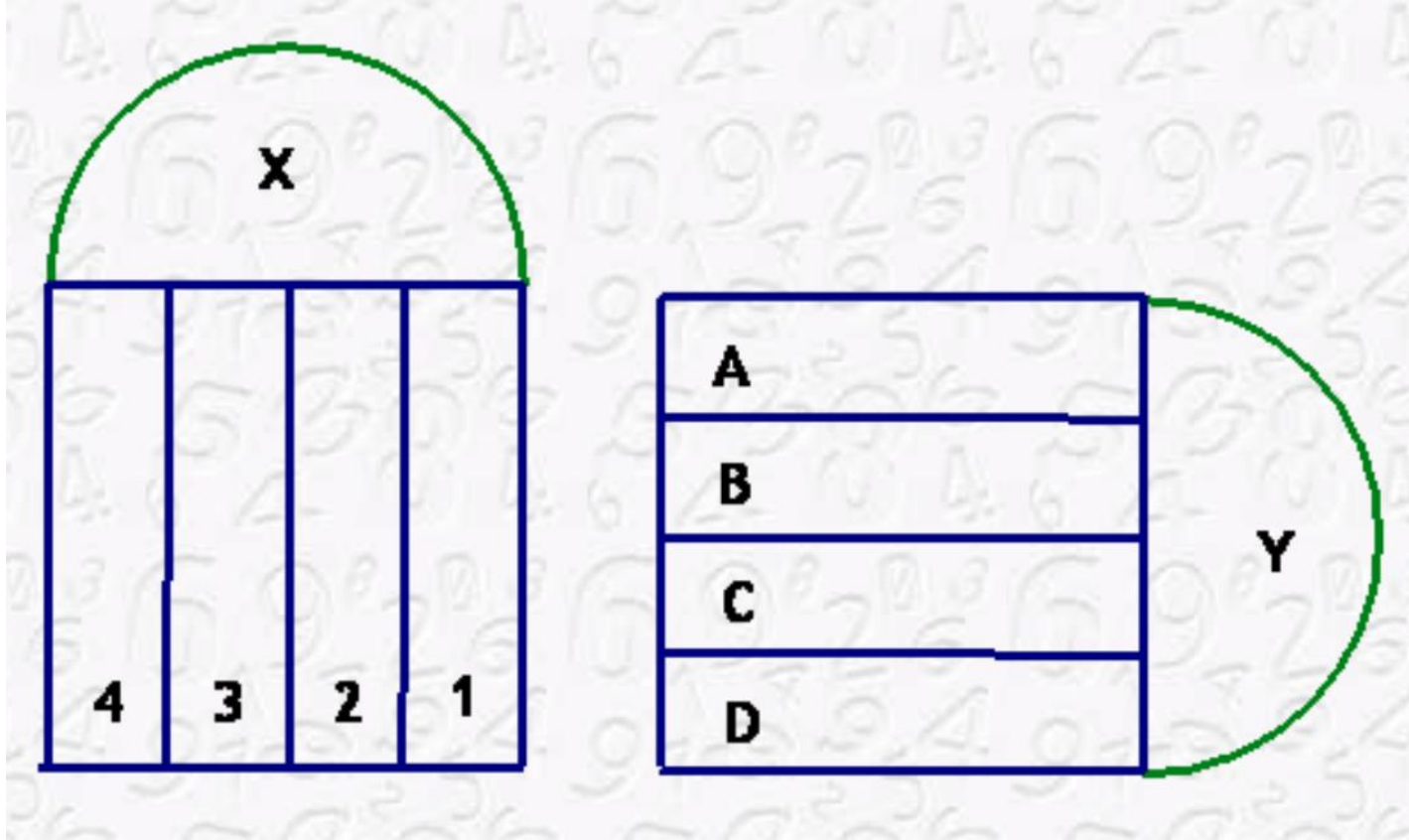




Fold each pattern along the center line. Carefully cut around the half circles and along the three straight lines.

Now fold each piece so the pencil lines don't show, and line up as shown. The tricky part comes next.





To weave the two pieces together:

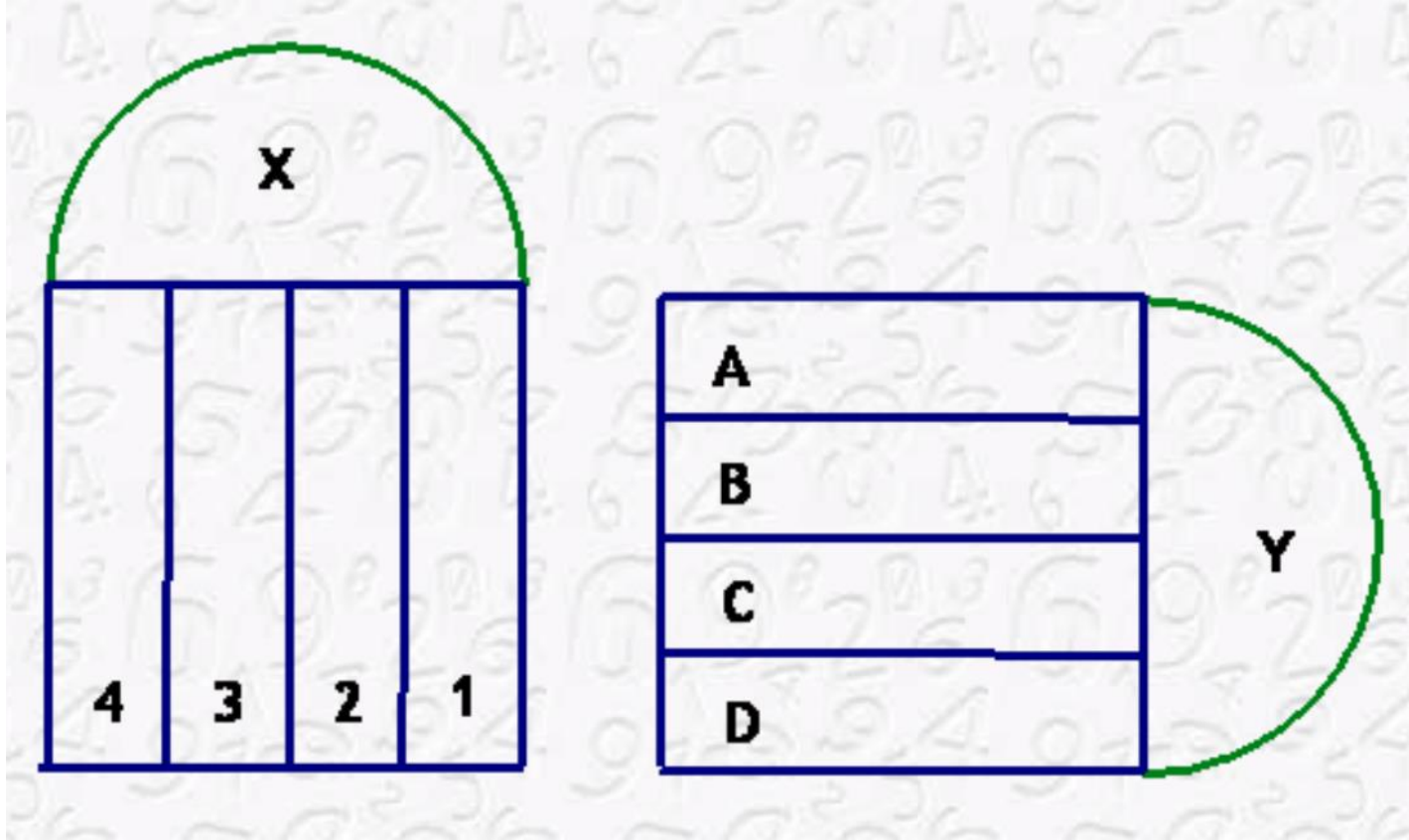
1. Place A inside 1, 2 inside A, A inside 3, and 4 inside A. One row is woven. Slide this row to the top of the three line segment cuts in piece X.
2. Place 1 inside B, B inside 2, 3 inside B, and B inside 4.
3. Place C inside 1, 2 inside C, C inside 3, and 4 inside C.
4. Place 1 inside D, D inside 2, 3 inside D, and D inside 4.
5. Attach a handle.



The top right white strip first goes inside the right-most pink strip. Then the second-right pink strip goes inside the top white strip. Next, white goes inside pink, and finally, pink goes into white. The first row is woven.



Now scoot the white strip to the top of the pink strips.



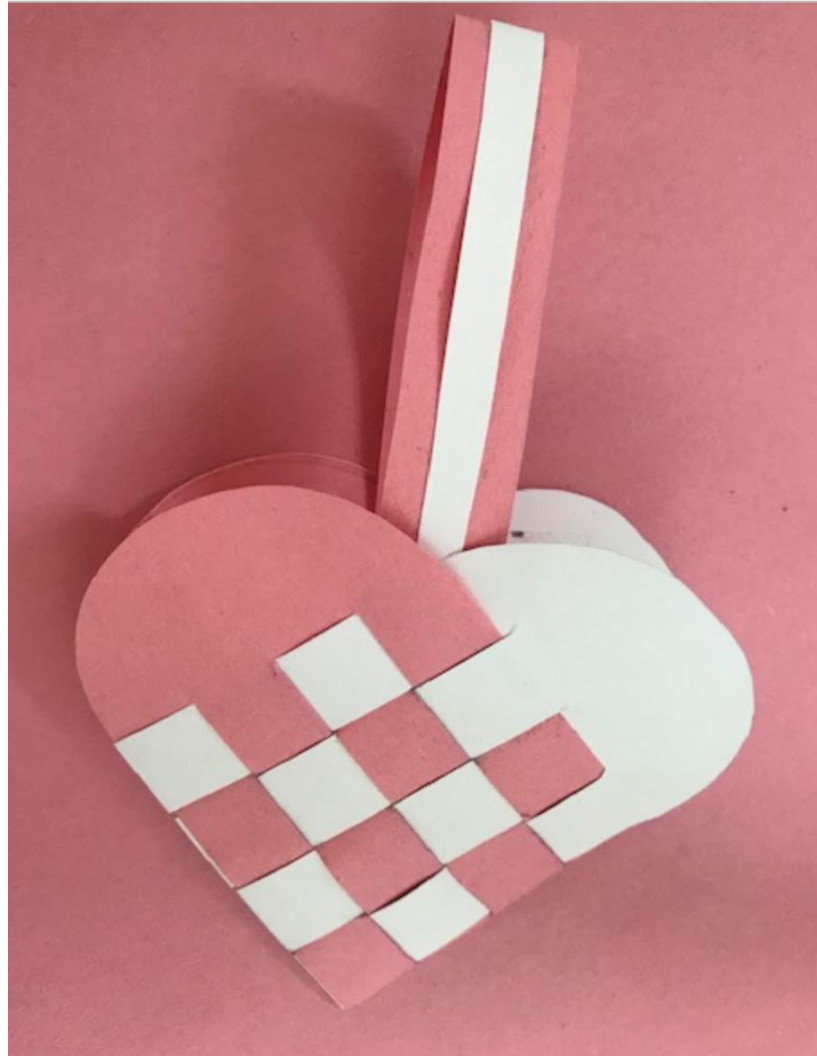
To weave the two pieces together:

1. Place A inside 1, 2 inside A, A inside 3, and 4 inside A. One row is woven. Slide this row to the top of the three line segment cuts in piece X.
2. Place 1 inside B, B inside 2, 3 inside B, and B inside 4.
3. Place C inside 1, 2 inside C, C inside 3, and 4 inside C.
4. Place 1 inside D, D inside 2, 3 inside D, and D inside 4.
5. Attach a handle.





The weaving is complete! Now we need to make a handle.



I made a two-toned handle. You may also make the edges scalloped.  
(Be sure to check that your basket opens correctly!)

Of course you can design baskets with different dimensions (e.g., 4 inches by 12 inches, or 3 inches by 9 inches; the dimensions need to be in the ratio of 3 to 1), and with different numbers of weaving strips! You can also try other kinds of paper.

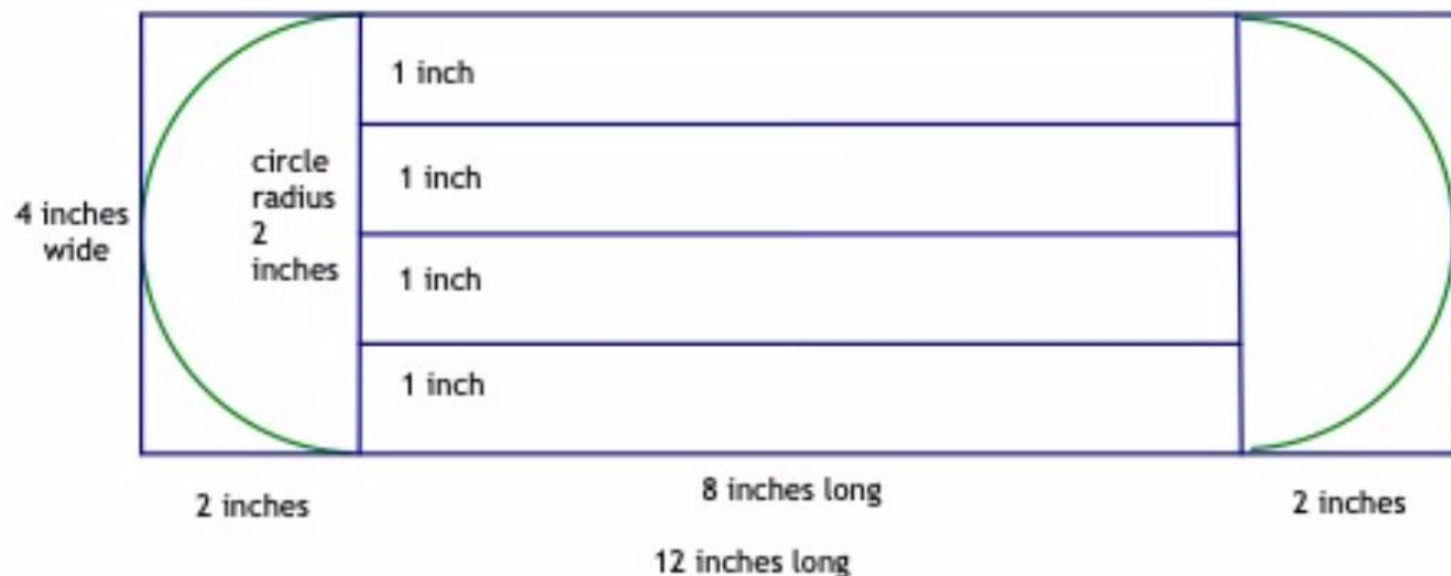


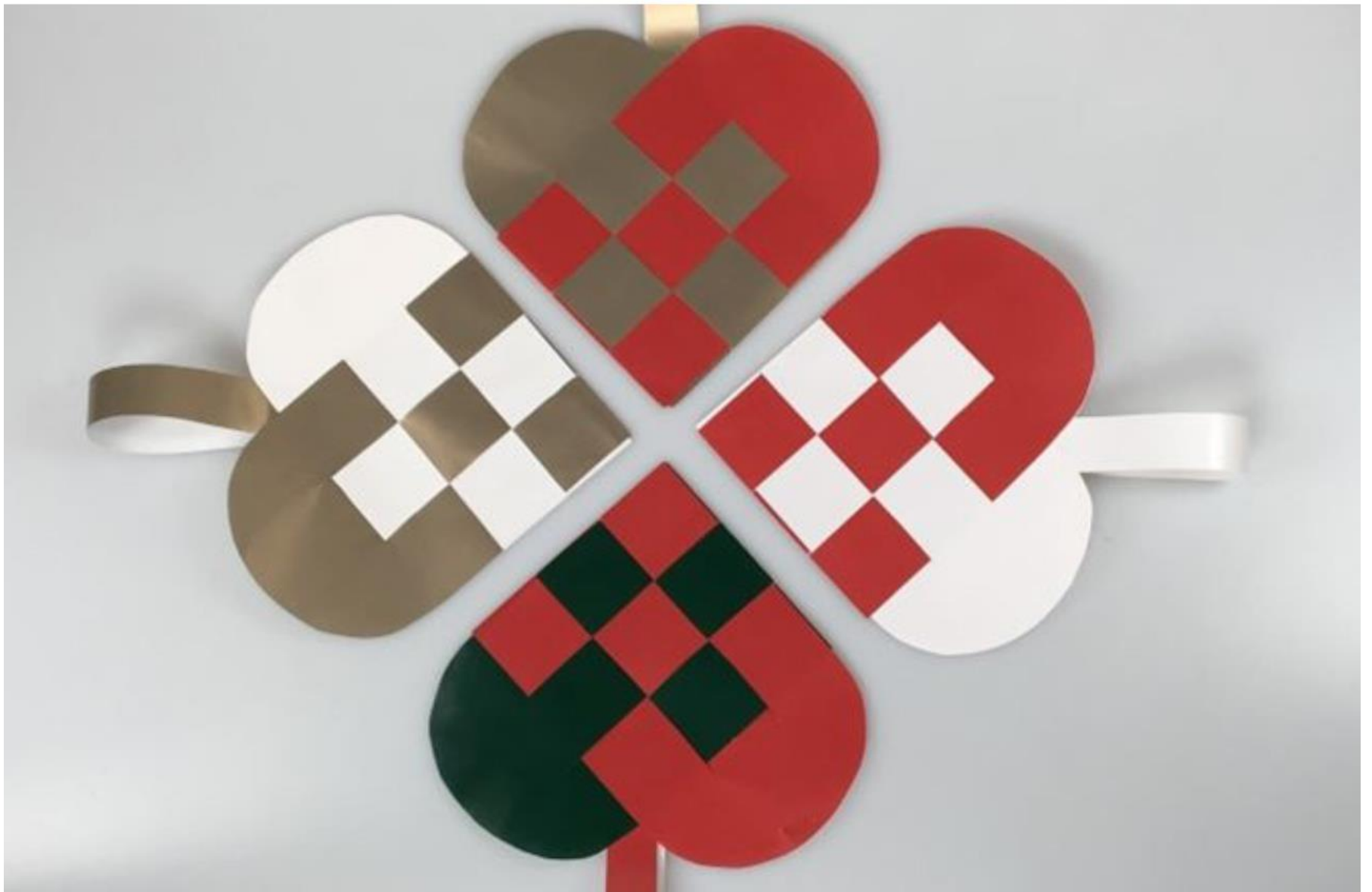
## 2-D nets for valentine basket from 9 inch by 3 inch and 12 inch by 4 inch rectangle

9 inch by 3 inch piece of paper



12 inch by 4 inch piece of paper





THE END