Product Explanation Sheet


Materials: large paper at (least 12 x 6), ruler, pencil, scissors, colored pens or markers

Read all steps before starting.

Use a ruler to draw all of the lines.

Use the Hawaii Revised Statutes excerpt below to determine the proportions of your replica of the flag.

(1) The Hawaiian flag shall consist of eight horizontal stripes, alternately white, red, blue, etc., beginning at the top, having a jack cantoned in the dexter chief angle next to the point of suspension;
(2) The jack shall consist of a blue field charged with a compound saltire (crossing) of alternate tincture white and red, the white having precedence; a narrow edge of white borders each red side of the saltire;
(3) A red cross bordered with white is charged (placed) over all;
(4) The proportion shall be as follows:
   (A) The fly (length) is twice the hoist (width);
   (B) The jack is half the hoist (width) in breadth and 7-16 the fly in length;
   (C) The arms of the red cross with border shall be equal in width to one of the horizontal stripes; the white border shall be one-third the width of the red cross;
   (D) The arms of the compound saltire (crossing) are equal in width to the red cross, the tinctures white, red, and the border being in the proportion of 3, 2, 1, respectively.

1. Choose what length (fly) you would like the replica of the flag to be. This measurement will be the only number you choose, all the other measurements will be calculated based on the proportions of the flag.
2. Calculate the width (hoist).
   Draw a rectangle with the length (#1) and width (#2) on your paper.
3. Cut out the rectangle.
4. Calculate the size of the jack.
   Draw this rectangle in the top left corner of your flag.
5. Calculate the width of each of the eight strips.
   Draw the stripes on your flag.
6. Calculate the width of the arms of the red cross.
   Draw the cross in the rectangle for the jack.
7. Calculate the width of the white border.
   Draw the border on the cross.
8. Calculate the width of the saltire.
   Draw the saltire.
9. Calculate the width of the 3 tinctures in the saltire. Draw the three tinctures of the saltire.
10. Check your calculations.
11. Accurately color your replica of the Hawai‘i state flag.
12. Turn your completed calculations and replica flag in to your teacher.

Use this diagram to help you identify the part of the flag you are calculating.