

Calculations and Piecing Instructions for Rectangle Finished Size with 2:1 Ratio



i.e. Rectangle **Finished** Size: 2 times the length: 1 times the width

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For example:

Rectangle finished size: length x width _____ x _____

Rectangle unfinished size: UL x UW _____ x _____

1. Calculate minimum size of fabric to cut for rectangle:

$$\text{Length} = \text{finished size} + 1 \frac{5}{16}'' = \underline{\hspace{2cm}}$$

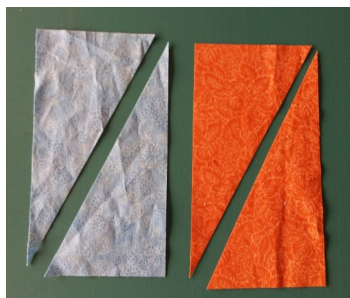
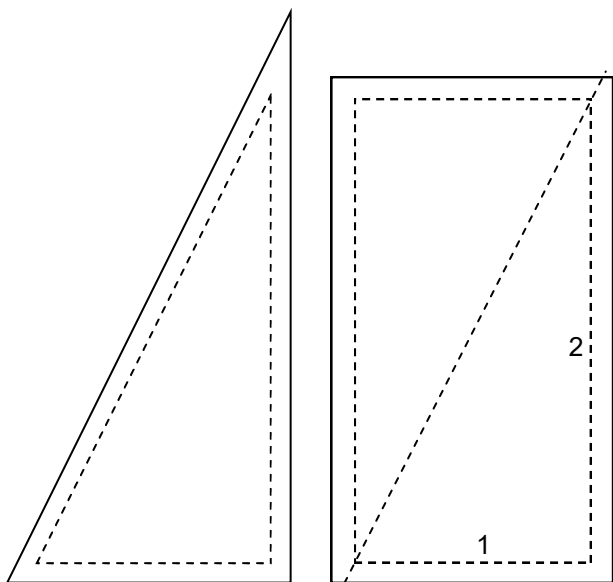
$$\text{Width} = \text{finished size} + \frac{5}{8}'' = \underline{\hspace{2cm}}$$

OR for cutting larger and trimming down to size

2. Calculate minimum size of fabric to cut for rectangle:

$$\text{Length} = \text{finished size} + 1 \frac{1}{2}'' = \underline{\hspace{2cm}}$$

$$\text{Width} = \text{finished size} + \frac{3}{4}'' = \underline{\hspace{2cm}}$$



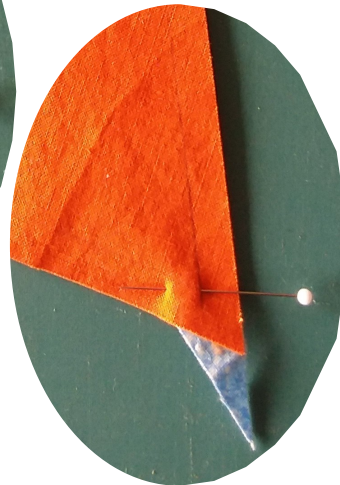
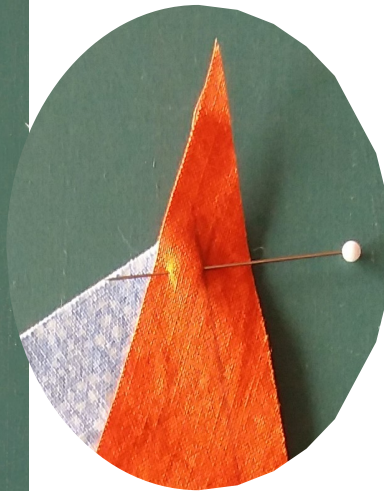
3. Place rectangles right side up. NOTE which direction you want the diagonal to go. Cut both rectangles diagonally in half, corner to corner, in the same direction.
4. Match rectangles into pairs.

5. Place triangles wrong side up.
6. To find the diagonal intersection points, draw a $\frac{1}{4}''$ seam line in the corners and along sides. Pay attention to your pencil width. Double check the $\frac{1}{4}''$ seam line measurement. You may have to place the ruler $\frac{1}{4}''$ line beside the raw fabric edge instead of on top of the raw edge.





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7. Layout triangles again. Place triangles right sides together. Match intersection points and pin.



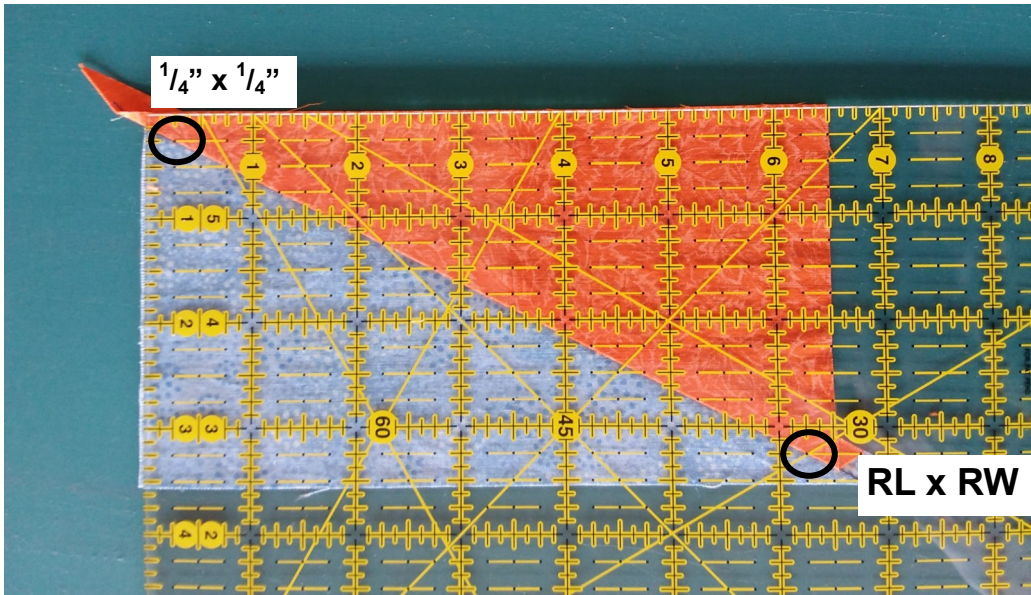
8. Sew the diagonal seam. Press.

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9. To Trim: find the finished rectangle $\frac{1}{4}$ " corners.

$$\begin{aligned} \text{Rectangle unfinished length (UL)} &= \underline{\hspace{2cm}} \\ \text{Less } \frac{1}{4}" & \\ &= \underline{\hspace{2cm}} = \text{RL} \end{aligned}$$

$$\begin{aligned} \text{Rectangle unfinished width (UW)} &= \underline{\hspace{2cm}} \\ \text{Less } \frac{1}{4}" & \\ &= \underline{\hspace{2cm}} = \text{RW} \end{aligned}$$

ruler point = (RL)_____ x (RW)_____

10. Other diagonal ruler point is $\frac{1}{4}$ " x $\frac{1}{4}$ "

11. Line up Step 9 and 10 ruler points on the diagonal seam line as shown in picture above. Trim.



12. Rotate the fabric. Line up the ruler unfinished size lines on the two sides raw edges just trimmed and trim the remaining two sides.

NOTE: Because the diagonal seam line is not at 45° , the diagonal seam line is offset in the corners. When you piece the rectangle to another unit the $\frac{1}{4}$ " intersection point ● will be on the diagonal.

