




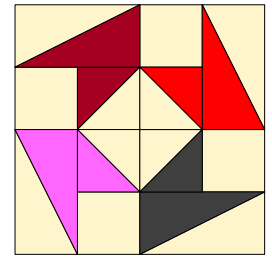


## Block 105 Helen Irene Battle

From: Sub-cut:

**If paper piecing add ¼" all the way around Template Z**

<div style="display: inline-block; width: 20px; height: 20px; background-color: #fff9c4; border: 1px solid black; margin-right: 5px;"></div>	<p><b>B</b> 6⅞" strip 2½" strip 2" strip OR 6"x17" rectangle</p>	<p>2 - 5" square. 2 - 2½" squares, cut once diagonally in half 4 - 2" squares</p>	
<div style="display: inline-block; width: 20px; height: 20px; background-color: #ff0000; border: 1px solid black; margin-right: 5px;"></div>	<p><b>R</b> 3"x7" rectangle</p>	<p>1 - 2½"x4" rectangle. 1 - 2½" square, cut once diagonally in half</p>	
<div style="display: inline-block; width: 20px; height: 20px; background-color: #ff00ff; border: 1px solid black; margin-right: 5px;"></div>	<p><b>L</b> 3"x7" rectangle</p>	<p>1 - 2½"x4" rectangle. 1 - 2½" square, cut once diagonally in half</p>	
<div style="display: inline-block; width: 20px; height: 20px; background-color: #800000; border: 1px solid black; margin-right: 5px;"></div>	<p><b>M</b> 3"x7" rectangle</p>	<p>1 - 2½"x4" rectangle. 1 - 2½" square, cut once diagonally in half</p>	
<div style="display: inline-block; width: 20px; height: 20px; background-color: #333333; border: 1px solid black; margin-right: 5px;"></div>	<p><b>D</b> 3"x7" rectangle</p>	<p>1 - 2½"x4" rectangle. 1 - 2½" square, cut once diagonally in half</p>	



## Helen Irene Battle (London ON 1903-1994)

"Helen entered the University of Western Ontario at 16, while the university was still in makeshift quarters, taking classes in such quaint locations as a barn at Huron College, a gymnasium and the old medical school, then graduating with a B.A. in Honours Biology in 1923. Her studies were so important that she went on to win two medals. Helen worked at and became the first Master of Arts graduate in Zoology in 1924. She demonstrated that the methods of the histology and physiology laboratories could provide answers to marine problems which means that she used techniques from the study of microscopic organisms and cells to work for the study of marine wildlife, so that she could gather research. This had rarely been seen before. Her papers were illustrated with her own ink drawings. Helen then became the first woman in Canada to earn a PhD in marine biology.

Because the laboratories she studied in were often on a really tight budget, she came up with inventive ways to continue research in her field. She was a true female leader in a profession dominated by men. She wasn't treated any differently because of her intelligence and her work ethics.

Helen's first love was teaching, which she began before graduation and continued well after retirement. She was the emeritus professor of zoology at the University of Western Ontario from 1972. Many of her students have become leaders in Canadian biology.

A pioneering scientist and instructor; her resourcefulness, ingenious ideas and hard work brought many new developments to the field of marine biology that will never be forgotten."

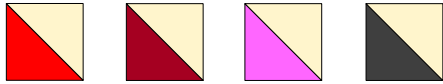
Mochi, Role Model Helen Irene Battle, Aug 29 2013, Role Models for Me, <https://rolemodelsforme.wordpress.com/2013/08/29/role-model-helen-irene-battle/>, Feb 21 2017.  
Donald B McMillan, Helen Irene Battle, Londonculture.ca, <http://www.londonculture.ca/things-we-do/culture-directory/historic-favourites/helen-irene-battle>, Feb 21 2017.  
Donald Burley McMillan, Helen Irene Battle, July 24 2011 edited July 24 2015, Historica Canada, <http://www.thecanadianencyclopedia.ca/en/article/helen-irene-battle/>, Feb 21 2017.

Block 105 Helen Irene Battle finished: 6" unfinished: 6½"

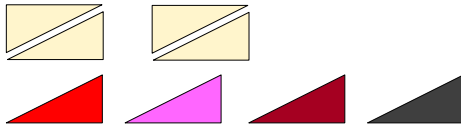
**Procedure:**

**For regular piecing:**

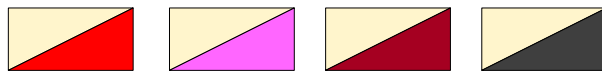
1. Sew [1] 2½" **R** and **B** triangle together. Press seam open. Trim to 2" square. Repeat using [1] 2½" **M** and **B** triangle, [1] 2½" **L** and **B** triangle and [1] 2½" **D** and **B** triangle.



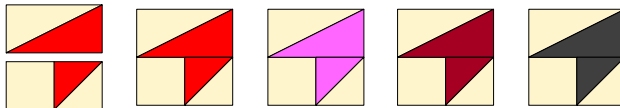
2. Using Template Z, cut [4] triangles from 5" **B** squares and [1] triangle from **R**, **L**, **M** and **D** rectangles.



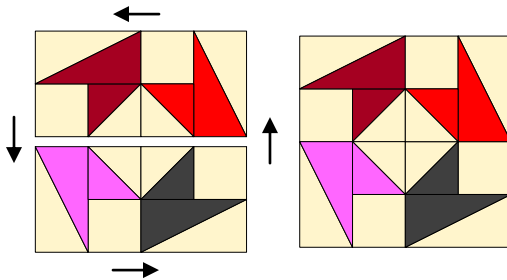
3. Place [1] **B** and **R** Step 2 triangle right sides together matching seam intersection points. Sew together. Press to **B**. Should be 2"x3½".  
**Note:** diagonal seams on raw outside edge are not in corner. Make [1] **B-L**, **B-M** and **B-D** rectangle.



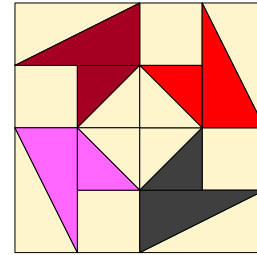
4. Layout and sew together [1] Step 1 and 3 same colour unit and 2½" **B** square. Press to Step 1 then to Step 3. Should be 3½" square. Repeat using remaining Step 1 and 3 units.



5. Layout [4] Step 4 units. Sew units together in rows. Press in arrow direction. Then sew rows together. Open center, spin and press in arrow direction. Should be 6½" square.



6. Option: Sew a 1½"x6½" background sash strip to the right side of block. ∞



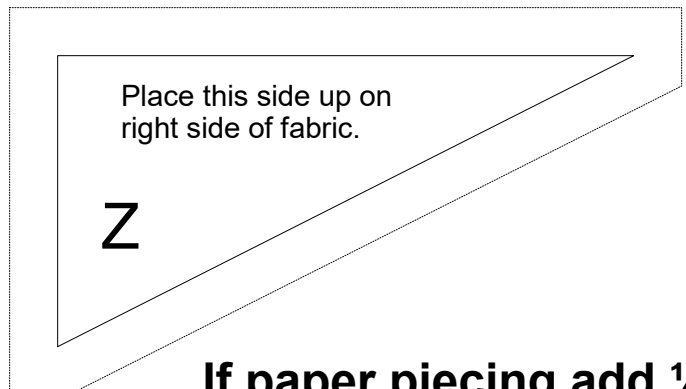
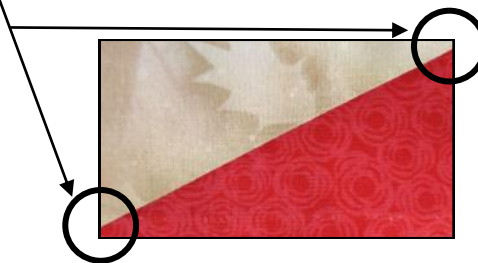
**Procedure for Paperless Paper Piecing or Regular Paper Piecing** - see links above blocks on 150 Canadian Women page

**Regular Paper Piecing** - see pages A thru D

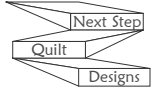
- Section 1 = **Z-R** triangle
- 2 = **Z-B** triangle
- 3 = **Z-M** triangle
- 4 = **Z-B** triangle
- 5 = **Z-L** triangle
- 6 = **Z-B** triangle
- 7 = **Z-D** triangle
- 8 = **Z-B** triangle

Trim to 2"x3½" rectangle on dashed lines and remove paper.

Go to Step 6 to finish piecing block. ∞



**If paper piecing add ¼" all the way around Template Z.**



Block 105 Helen Irene Battle finished: 6" unfinished: 6½"

Paper Piecing Pattern is Reversed

