Helmet over crossed axes C2C graph

US terms



Finished size
About 39½ × 31½ in (100 × 80 cm)

Skill
Advanced
64 lone blocks. 99 balls to wind, 198 ends to weave in.

Yarn
Medium (4), 6 colors

Hook
5.5 mm (US I-9)

Gauge
About 5.3 blocks to 4 in (10 cm) each way
In corner-to-corner blocks of ch 3 and 3 double crochet.

What you need

Yarn A: cream, background, worked from 9 lengths: most about 200 yd (183 m) or less, the longest 250 yd (229 m), those over 150 yd straight from the skein	**about 900 yd (823 m), an estimate**
Yarn B: brown, cross on the graph, wind 68 small balls: most about 5 yd (5 m) or less, the longest 30 yd (28 m)	**about 225 yd (206 m), an estimate**
Yarn C: red, dot on the graph, wind 10 small balls: most about 25 yd (23 m) or less, the longest 40 yd (37 m)	**about 180 yd (165 m), an estimate**
Yarn D: gold, ring on the graph, wind 5 small balls: most about 20 yd (19 m) or less, the longest 30 yd (28 m)	**about 80 yd (73 m), an estimate**
Yarn E: dark red, slash on the graph, wind 4 small balls: about 20 yd (19 m), 8 yd (8 m), 8 yd (8 m) and 3 yd (3 m)	**about 35 yd (32 m), an estimate**
Yarn F: gray, triangle on the graph, wind 3 small balls: about 20 yd (19 m), 15 yd (14 m) and 5 yd (5 m)	**about 35 yd (32 m), an estimate**

By weight: about 730 g in all, an estimate, where 100 g is 200 yd (183 m).

Hook: 5.5 mm (US I-9). Also: yarn needle, bobbins or small balls, one for each stretch of color: 99 in all, scissors and tape measure.

Before you start

- Row 1 is one block: dc in the 4th ch from the hook and in each of the next 2 chs. The 3 chains skipped stand at the side of the block and make its ch-3 sp.
- An increase row has one block more than the row before. It begins with a new block: ch 6, turn, dc in 4th ch from hook, dc in next 2 chs. It ends with a block in the last ch-3 sp.

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- A decrease row has one block fewer than the row before. It begins with no new block: turn, sl st in each of the 3 dc of the last block made. It ends with a sl st in the last ch-3 sp.
- An even row has as many blocks as the row before: one edge of the graph is finished and the other still grows. Its label says how it begins. An even row that begins with a new block begins as an increase row does and ends with a sl st in the last ch-3 sp. An even row that begins with slip stitches begins as a decrease row does and ends with a block in the last ch-3 sp.
- Where a row begins with slip stitches, as every decrease row does, its first block is (sl st, ch 3, 3 dc) in the ch-3 sp of the block just slipped across.
- Every other block of a row is (sl st, ch 3, 3 dc) in the ch-3 sp of the next block of the row before.

Gauge

About 5.3 blocks to 4 in (10 cm) each way in corner-to-corner blocks of ch 3 and 3 double crochet.

Use the hook that gives you this.

The pattern also stops you to measure after row 6.

> **The swatch.** A test piece to measure and pull out. It is not the start of the pattern. Work the first 8 rows of the pattern in one yarn: a triangle with 8 blocks along each straight edge, about 6 in (15 cm). Count the blocks in 4 in (10 cm) along the middle of a straight edge.

Swatch foundation	With A, ch 6.	
Swatch row 1 (RS, increase)	1 A	(1 block)
Swatch row 2 (WS, increase)	2 A	(2 blocks)
Swatch row 3 (RS, increase)	3 A	(3 blocks)
Swatch row 4 (WS, increase)	4 A	(4 blocks)
Swatch row 5 (RS, increase)	5 A	(5 blocks)
Swatch row 6 (WS, increase)	6 A	(6 blocks)
Swatch row 7 (RS, increase)	7 A	(7 blocks)
Swatch row 8 (WS, increase)	8 A	(8 blocks)

The same graph in other yarn weights

Light (3): 6.2 blocks to 4 in (10 cm), hook 4.5 to 5.5 mm, about 34½ × 27¼ in (88 × 69 cm).

Bulky (5): 4.1 blocks to 4 in (10 cm), hook 6.5 to 9 mm, about 51½ × 40¾ in (131 × 104 cm).

No yarn amount has been worked out for these weights.

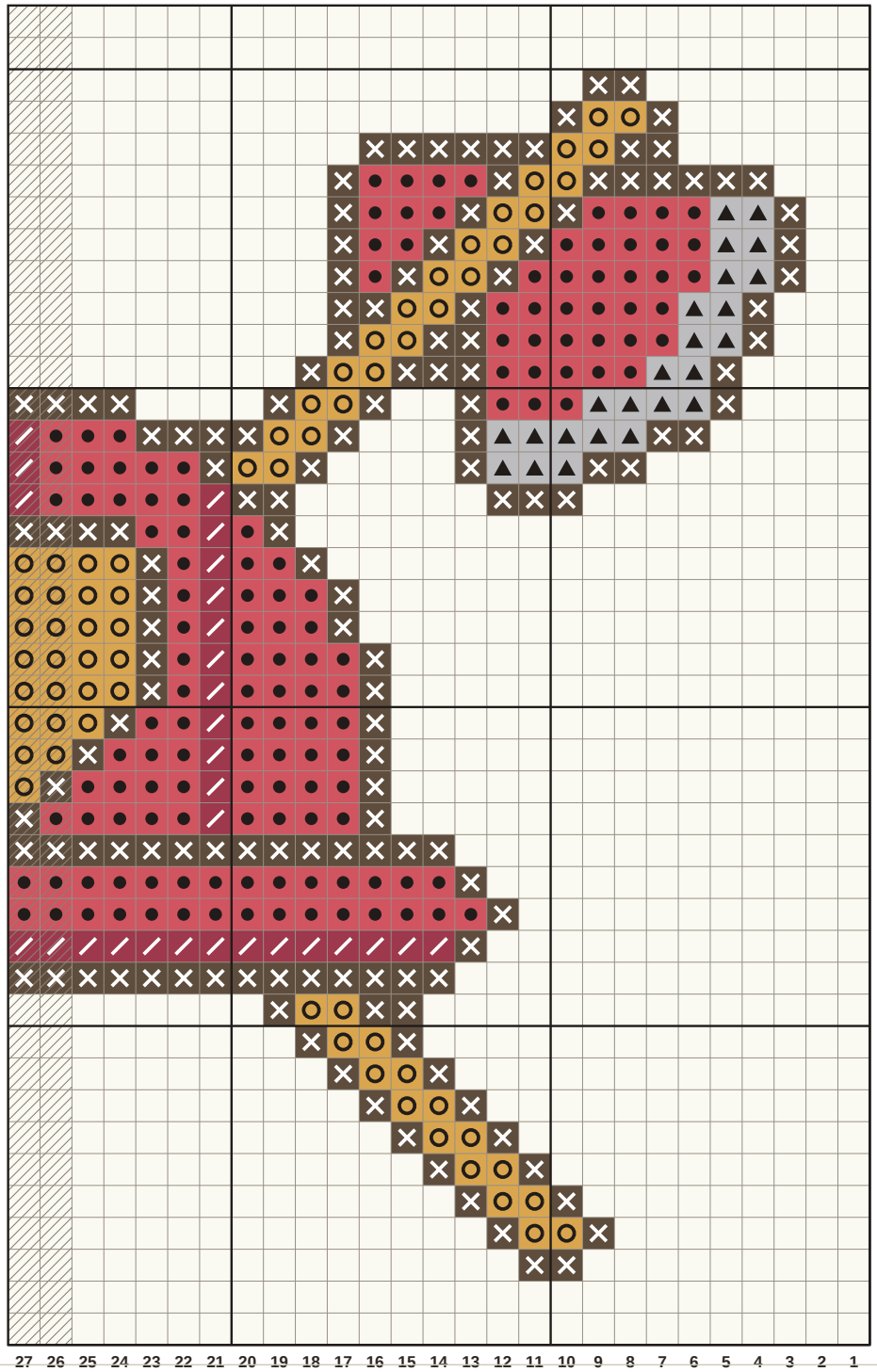
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Graph, sheet 1 of 2

53 squares wide and 42 tall. One square is 1 block of ch 3 and 3 double crochet, worked on the diagonal. Row 1 is the square in the bottom right corner, and each row after it is the next diagonal of the graph, as far as the top left corner. A row's number stands at its lower end: along the bottom edge, then up the left edge. Right-side rows are read down the diagonal to that end, wrong-side rows back up from it. This sheet: columns 1 to 27 counted from the right, lines of squares 1 to 42 counted from the bottom. Sheet 1 is the corner row 1 begins in. The numbers stand on the sheets that hold the graph's bottom edge or its left edge. The shaded squares are on the next sheet as well, beside this one or above it.

- A cream, no symbol, 1,439 squares
- B brown, cross, 283 squares
- C red, dot, 280 squares
- D gold, ring, 124 squares
- E dark red, slash, 52 squares
- F gray, triangle, 48 squares

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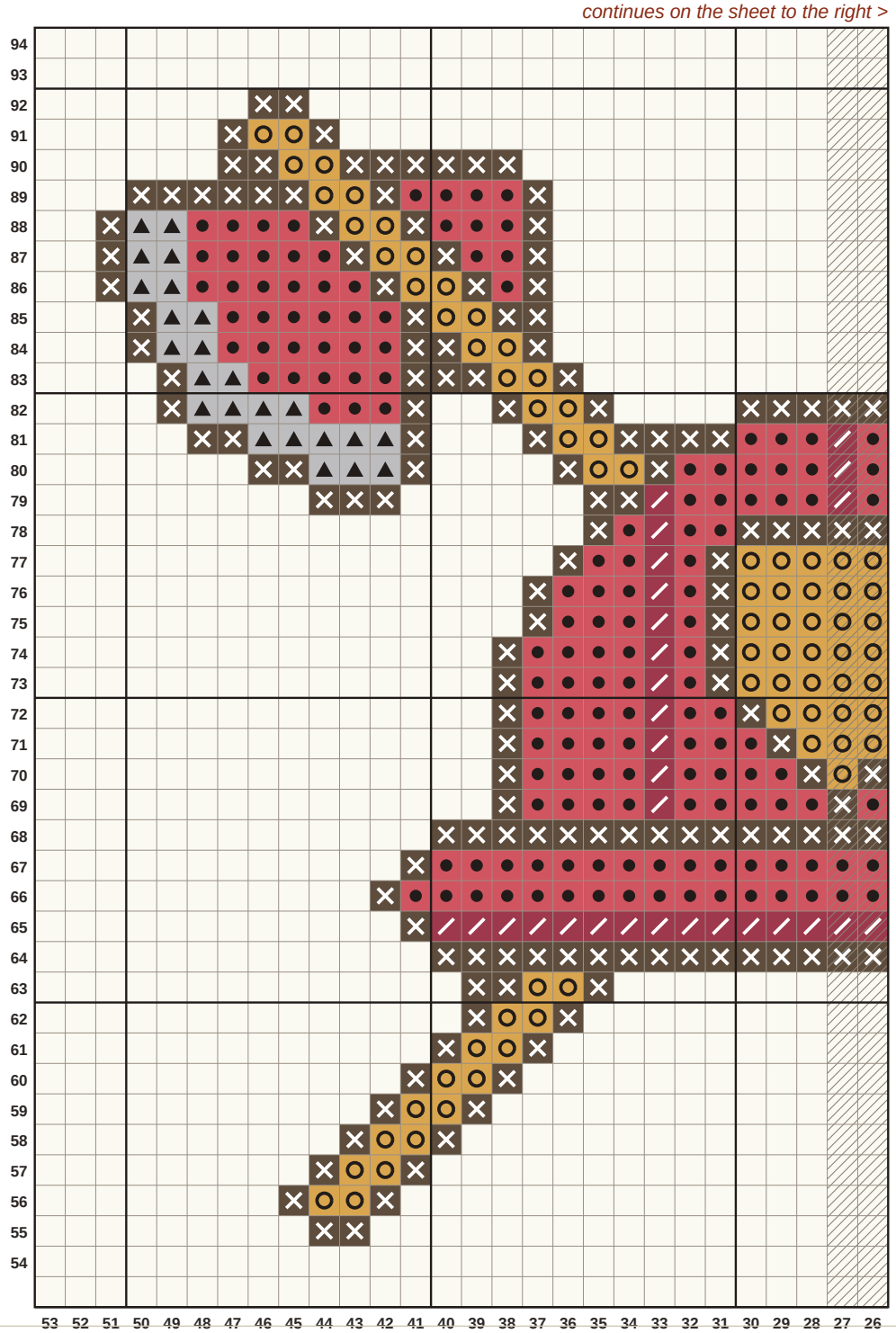
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Graph, sheet 2 of 2

53 squares wide and 42 tall. One square is 1 block of ch 3 and 3 double crochet, worked on the diagonal. Row 1 is the square in the bottom right corner, and each row after it is the next diagonal of the graph, as far as the top left corner. A row's number stands at its lower end: along the bottom edge, then up the left edge. Right-side rows are read down the diagonal to that end, wrong-side rows back up from it. This sheet: columns 26 to 53 counted from the right, lines of squares 1 to 42 counted from the bottom. Sheet 1 is the corner row 1 begins in. The numbers stand on the sheets that hold the graph's bottom edge or its left edge. The shaded squares are on the next sheet as well, beside this one or above it.

- A cream, no symbol, 1,439 squares
- B brown, cross, 283 squares
- C red, dot, 280 squares
- D gold, ring, 124 squares
- E dark red, slash, 52 squares
- F gray, triangle, 48 squares

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Instructions

US terms.

Each square is a **block**: ch 3 and 3 dc (UK tr). It is worked on the diagonal.
2 A: two blocks in yarn A. *: from a new ball. #: cut it after.
Odd rows go down the diagonal, even rows up.
New color: in the **last pull before it**.
(3 blocks): the row now has 3. **How to read a graph**
Also: ch chain stitch, dc double crochet, sl st slip stitch, sp space.
Every stitch, drawn: flossfield.com/crochet/stitches.

☐ **Start**	With A, ch 6. Row 1 is one block, worked into these chains.	

Increase rows

☐ **Row 1**	1 A*	(1 block)
☐ **Row 2**	2 A	(2 blocks)
☐ **Row 3**	3 A	(3 blocks)
☐ **Row 4**	4 A	(4 blocks)
☐ **Row 5**	5 A	(5 blocks)
☐ **Row 6**	6 A	(6 blocks)

> **Stop and measure now, after row 6.** One straight edge of the triangle, from the first block to the end of the row: about 4½ in (11 cm). If it is longer, the whole picture will be larger: start again with a smaller hook, or keep going and expect a larger piece. If it is shorter, a larger hook.

☐ **Row 7**	7 A	(7 blocks)
☐ **Row 8**	8 A	(8 blocks)
☐ **Row 9**	9 A	(9 blocks)
☐ **Row 10**	10 A	(10 blocks)
☐ **Row 11**	11 A	(11 blocks)
☐ **Row 12**	2 A, 2 B*, 8 A*	(12 blocks)
☐ **Row 13**	9 A, 1 D*, 1 B#, 2 A	(13 blocks)
☐ **Row 14**	3 A, 1 D, 1 B*#, 9 A	(14 blocks)
☐ **Row 15**	10 A, 1 D, 1 B*#, 3 A	(15 blocks)
☐ **Row 16**	4 A, 1 D, 1 B*#, 10 A	(16 blocks)
☐ **Row 17**	11 A, 1 D, 1 B*#, 4 A	(17 blocks)
☐ **Row 18**	5 A, 1 D, 1 B*#, 11 A	(18 blocks)
☐ **Row 19**	12 A, 1 D, 1 B*#, 5 A	(19 blocks)
☐ **Row 20**	6 A, 1 D, 1 B*#, 12 A	(20 blocks)
☐ **Row 21**	13 A, 1 D, 1 B*#, 6 A	(21 blocks)

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☐ **Row 22**	7 A, 1 D, 1 B*#, 13 A	(22 blocks)
☐ **Row 23**	14 A, 1 D, 1 B*#, 7 A	(23 blocks)
☐ **Row 24**	8 A, 1 D, 1 B*#, 14 A	(24 blocks)
☐ **Row 25**	11 A, 4 B*, 1 D, 1 B*#, 8 A	(25 blocks)
☐ **Row 26**	9 A, 1 D, 2 B, 1 E*, 1 C*, 12 A	(26 blocks)
☐ **Row 27**	12 A, 1 B*#, 1 C, 1 E, 1 B, 1 D, 1 B*#, 9 A	(27 blocks)
☐ **Row 28**	10 A, 1 D#, 1 B, 1 E, 2 C, 13 A	(28 blocks)
☐ **Row 29**	13 A, 1 B*, 2 C, 1 E, 2 B, 10 A	(29 blocks)
☐ **Row 30**	11 A, 1 B, 1 E, 2 C, 1 B, 14 A	(30 blocks)
☐ **Row 31**	15 A, 1 B, 2 C, 1 E, 1 B, 11 A	(31 blocks)
☐ **Row 32**	11 A, 1 B, 1 E, 2 C, 2 B, 15 A	(32 blocks)
☐ **Row 33**	15 A, 1 B, 1 C*, 1 B*, 2 C, 1 E, 1 B, 11 A	(33 blocks)
☐ **Row 34**	11 A, 1 B, 1 E, 2 C, 1 B, 2 C, 1 B, 9 A, 2 B*, 4 A*	(34 blocks)
☐ **Row 35**	3 A, 2 B, 1 F*, 2 B*, 7 A, 1 B, 3 C, 1 B, 2 C, 1 E, 1 B, 11 A	(35 blocks)
☐ **Row 36**	11 A, 1 B, 1 E, 2 C, 1 B, 4 C, 1 B, 5 A, 2 B, 4 F, 2 B, 2 A	(36 blocks)
☐ **Row 37**	2 A, 1 B, 7 F, 1 B, 4 A, 1 B#, 4 C, 1 E*, 1 B, 2 C, 1 E, 1 B, 11 A	(37 blocks)
☐ **Row 38**	11 A, 1 B, 1 E, 2 C, 1 B, 1 C*, 1 E, 4 C, 4 A, 1 B#, 3 F, 2 C*, 3 F*, 1 B#, 2 A	(38 blocks)
☐ **Row 39**	3 A, 2 F, 5 C, 2 F, 4 A, 1 B*, 3 C, 1 E, 2 C, 1 B, 2 C, 1 E, 1 B, 11 A	(39 blocks)
☐ **Row 40**	11 A, 1 B, 1 E, 2 C, 1 B, 3 C, 1 E, 3 C, 1 B#, 3 A, 1 B*, 1 F#, 6 C, 1 F#, 1 B*, 3 A	(40 blocks)
☐ **Row 41**	4 A, 1 B, 7 C, 1 B, 4 A, 3 C, 1 E, 4 C, 1 B, 2 C, 1 E, 1 B, 11 A	(41 blocks)
☐ **Row 42**	11 A, 1 B, 1 E, 2 C, 1 B#, 5 C, 1 E, 2 C, 1 B*#, 4 A, 1 B, 6 C, 1 B, 5 A	(42 blocks)

Even rows

☐ **Row 43**	*Slip stitches.* 5 A, 1 B, 5 C, 1 B, 5 A, 2 C, 1 E, 1 C, 6 B*, 2 C, 1 E, 1 B, 11 A	(42 blocks)
☐ **Row 44**	*New block.* 11 A#, 1 B, 1 E, 2 C, 1 B, 1 C*, 4 D*, 1 B*, 1 C, 1 E, 1 C, 1 B*#, 4 A#, 2 B#, 4 C#, 2 B, 4 A	(42 blocks)
☐ **Row 45**	*Slip stitches.* 3 A, 13 B, 1 C#, 1 E, 1 C, 1 B, 4 D, 1 B*#, 1 C, 1 B, 2 C, 1 E, 10 B, 2 A*	(42 blocks)
☐ **Row 46**	*New block.* 2 A, 1 B#, 8 D*, 1 B*, 1 E, 2 C, 1 B, 2 C, 5 D, 1 B, 1 C, 1 E, 1 B#, 12 D*, 3 A	(42 blocks)
☐ **Row 47**	*Slip stitches.* 2 A, 1 B*#, 12 D#, 1 E#, 1 C, 1 B#, 5 D, 1 B*#, 2 C, 1 B, 2 C, 1 E, 1 B#, 8 D#, 3 A	(42 blocks)
☐ **Row 48**	*New block.* 3 A#, 9 B*, 1 E, 2 C, 1 B, 3 C, 6 D, 2 C, 13 B*#, 2 A	(42 blocks)
☐ **Row 49**	*Slip stitches.* 4 A, 1 B*, 4 C*, 1 B*, 3 A*, 1 B*, 2 C, 1 B*, 5 D, 1 B*#, 2 C, 1 E*, 1 B, 2 C, 1 E, 2 B, 10 A*	(42 blocks)

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☐ **Row 50**	*New block.* 11 A, 1 B, 1 E, 2 C, 1 B, 1 C*, 1 E, 2 C, 5 D, 1 B, 2 C, 1 B, 4 A, 1 B, 3 C, 1 B, 4 A	(42 blocks)
☐ **Row 51**	*Slip stitches.* 4 A, 1 B, 2 C, 1 B, 5 A, 1 B#, 2 C, 1 B, 4 D, 1 B*, 1 C, 1 E, 2 C, 1 B, 2 C, 1 E, 1 B#, 11 A	(42 blocks)
☐ **Row 52**	*New block.* 12 A, 1 E#, 2 C, 1 B, 3 C, 1 E, 1 C, 1 B, 3 D, 1 B, 3 C, 6 A, 1 B, 1 C#, 1 B#, 4 A	(42 blocks)
☐ **Row 53**	*Slip stitches.* 4 A#, 2 B#, 6 A, 1 B*, 2 C, 1 E*, 1 B, 2 D, 1 B, 1 C, 1 E, 4 C, 1 B, 2 C, 1 B*#, 12 A	(42 blocks)

Decrease rows

☐ **Row 54**	12 A, 2 C#, 2 B, 4 C, 1 E, 1 C, 1 B, 1 D#, 1 B#, 1 C*, 1 E, 1 C#, 1 B, 12 A	(41 blocks)
☐ **Row 55**	12 A, 1 B, 1 E#, 2 C#, 2 B#, 1 C, 1 E, 4 C, 1 B, 1 A*#, 3 B*#, 11 A	(40 blocks)
☐ **Row 56**	15 A, 1 B, 4 C, 1 E, 5 C, 1 B, 12 A	(39 blocks)
☐ **Row 57**	12 A, 1 B, 4 C, 1 E, 4 C, 1 B, 15 A	(38 blocks)
☐ **Row 58**	15 A, 1 B, 4 C, 1 E, 3 C, 1 B, 12 A	(37 blocks)
☐ **Row 59**	12 A, 2 B#, 1 C#, 1 E#, 3 C#, 2 B, 15 A	(36 blocks)
☐ **Row 60**	16 A, 6 B, 13 A	(35 blocks)
☐ **Row 61**	13 A, 1 B, 1 D*, 1 B*#, 18 A	(34 blocks)
☐ **Row 62**	18 A, 1 D, 1 B#, 13 A	(33 blocks)
☐ **Row 63**	13 A, 1 D, 1 B*#, 17 A	(32 blocks)
☐ **Row 64**	17 A, 1 D, 1 B*#, 12 A	(31 blocks)
☐ **Row 65**	12 A, 1 D, 1 B*#, 16 A	(30 blocks)
☐ **Row 66**	16 A, 1 D, 1 B*#, 11 A	(29 blocks)
☐ **Row 67**	11 A, 1 D, 1 B*#, 15 A	(28 blocks)
☐ **Row 68**	11 A, 2 B*, 2 A*, 1 D, 1 B*, 10 A	(27 blocks)
☐ **Row 69**	9 A, 1 B, 1 D, 1 B*#, 1 A#, 1 B, 1 F*, 1 B*, 10 A	(26 blocks)
☐ **Row 70**	9 A, 1 B#, 2 F, 2 B, 1 D, 2 B, 8 A	(25 blocks)
☐ **Row 71**	7 A, 1 B, 1 C*, 1 D, 2 B, 1 C*, 2 F, 9 A	(24 blocks)
☐ **Row 72**	8 A, 1 B*, 1 F, 2 C, 1 B, 1 D, 1 B*#, 1 C, 1 B, 6 A	(23 blocks)
☐ **Row 73**	5 A, 1 B#, 2 C, 1 D, 1 B#, 3 C, 1 F, 1 B#, 7 A	(22 blocks)
☐ **Row 74**	7 A, 2 F, 3 C, 1 D, 1 B*#, 2 C, 5 A	(21 blocks)
☐ **Row 75**	4 A, 1 B*, 2 C, 1 D, 1 B*#, 3 C, 1 F, 1 B*, 6 A	(20 blocks)
☐ **Row 76**	5 A, 1 B#, 1 F, 4 C, 1 D, 1 B*#, 1 C, 1 B, 4 A	(19 blocks)
☐ **Row 77**	4 A, 1 B, 1 C#, 1 D, 1 B*#, 3 C, 2 F, 5 A	(18 blocks)

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☐ **Row 78**	4 A, 1 B*, 1 F, 4 C, 1 D, 2 B, 4 A	(17 blocks)
☐ **Row 79**	4 A, 1 B, 1 D, 1 B*#, 3 C, 1 F, 1 B#, 4 A	(16 blocks)
☐ **Row 80**	4 A, 2 F, 3 C, 1 D, 1 B#, 4 A	(15 blocks)
☐ **Row 81**	4 A, 1 D, 1 B*, 3 C, 1 F, 1 B*, 3 A	(14 blocks)
☐ **Row 82**	3 A, 1 B#, 1 F, 2 C, 1 B, 1 D, 1 B*#, 3 A	(13 blocks)
☐ **Row 83**	3 A, 1 D, 2 B, 1 C#, 2 F, 3 A	(12 blocks)
☐ **Row 84**	2 A, 1 B*, 2 F, 2 B, 1 D#, 1 B*#, 2 A	(11 blocks)
☐ **Row 85**	2 A#, 2 B#, 1 A*, 1 B*#, 1 F#, 1 B, 2 A	(10 blocks)
☐ **Row 86**	2 A#, 2 B#, 5 A	(9 blocks)
☐ **Row 87**	8 A	(8 blocks)
☐ **Row 88**	7 A	(7 blocks)
☐ **Row 89**	6 A	(6 blocks)
☐ **Row 90**	5 A	(5 blocks)
☐ **Row 91**	4 A	(4 blocks)
☐ **Row 92**	3 A	(3 blocks)
☐ **Row 93**	2 A	(2 blocks)
☐ **Row 94**	1 A#	(1 block)
☐	Fasten off, leaving a 6 in (15 cm) tail.	

Finishing

- Weave in every end along blocks of its own color.
- This pattern has no border: the size, the yarn amounts and the ends counted are for the blocks alone.

In all: 94 rows; 2,226 blocks; 547 color changes, at most 17 in a row; 99 small balls; 198 ends to weave in.

To find how many balls: divide by the length on your yarn's label and round up. Buy them from one dye lot. The estimate is from the stitches and chains of this size at this gauge, with 30 percent added. To measure your own: work the swatch and measure it, mark the yarn where the swatch begins and ends, pull the swatch out and measure the yarn it took; divide by the area of the swatch and multiply by the area of the piece.

Notes

- Row 1 is the block in the bottom right corner of the graph. Rows run on the diagonal to the top left corner. Odd rows are read from the right edge, later the top edge, down to the bottom edge, later the left edge; even rows are read back up. Each row's label names its two edges.
- The picture reads the right way round on one face of the piece. If yours is mirrored, turn it over.
- Find that face after row 2. Lay the three blocks down with the first block at the bottom right and the other two to its left and above it; turn the piece over and lay it the same way to see the other face. On the face you want, the block you worked first in row 2, the one begun with ch 6, is the one to the left of the first block. That face is your right side for the whole piece.
- Right-handed: expect it to be the face toward you in row 1 and in every odd row, as the row labels say.

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- Each square of the graph is one block: ch 3 and 3 double crochet. Rows are counted in blocks. The colors of every row are written in the order you work them: "3 A" is 3 blocks in yarn A.
- Turn after every row. A row's label says how it is worked: increase, decrease or even.
- To change color, work the last yarn-over of the last dc of the block before in the new color, and make the next slip stitch with the new color.
- Nothing is carried from row to row. Each stretch of color has a small ball or bobbin of its own: 99 in all. Drop a yarn on the wrong side where its color ends and pick it up again on the next row.
- A star (*) after a run: begin that run with a new ball, leaving a tail of about 6 in (15 cm). A run with no star goes on with the ball of its color left hanging from the row below; where that ball hangs a block or two away, lay the yarn along the row and work over it. If more than one ball of that color hangs within reach, take the nearest.
- A hash (#) after a run: its ball is not used again. When the run is worked, cut the yarn, leaving a tail of about 6 in (15 cm). A run with both marks (*#) is worked from a new ball that is cut when the run is done.
- At most 18 balls hang from the work at one time: the row with the most color changes has 17.
- This picture has 64 lone blocks: a block with no block of its own color to its left, to its right, above it or below it. 30 of them are alone in their diagonal row as well, and each of those is worked from a small ball of its own; the other 34 lie next to a block of their own color in their diagonal row and are worked from the ball of that run.
- Close shades: C and E are both red. Choose yarns you can tell apart in your own light.
- Left-handed. Work the same rows exactly as they are written. Expect your right side to be the face toward you in row 2 and in every even row: read RS as WS and WS as RS throughout, and drop yarns and weave in ends on the face toward you in the odd rows.

Found a mistake in this pattern? Tell us at flossfield.com, under Make a request.

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