Graduation cap with a tassel C2C graph

US terms



Finished size
About 26¼ × 18¾ in (67 × 48 cm)

Skill
Intermediate
5 yarns. 11 balls to wind, 22 ends to weave in.

Hook
5.5 mm (US I-9)

Also
Yarn needle, bobbins or small balls, one for each stretch of color: 11 in all, scissors and tape measure

What you need

Medium (4) yarn, 5 colors: about 290 g in all, an estimate, where 100 g is 200 yd (183 m).

A: cream, background, worked from 4 lengths: about 200 yd (183 m), 125 yd (115 m), 35 yd (33 m) and 2 yd (2 m), the longest straight from the skein	**about 325 yd (297 m), an estimate**
B: black, cross on the graph, wind 3 small balls: about 90 yd (83 m), 30 yd (28 m) and 20 yd (19 m)	**about 130 yd (119 m), an estimate**
C: gray, dot on the graph, wind 2 small balls: about 70 yd (65 m) and 20 yd (19 m)	**about 85 yd (78 m), an estimate**
D: dark gold, slash on the graph, wind 1 small ball	**about 20 yd (18 m), an estimate**
E: gold, ring on the graph, wind 1 small ball	**about 20 yd (18 m), an estimate**

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.
- 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.

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- 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 22¾ × 16¼ in (58 × 41 cm).

Bulky (5): 4.1 blocks to 4 in (10 cm), hook 6.5 to 9 mm, about 34 × 24¼ in (86 × 62 cm).

No yarn amount has been worked out for these weights.

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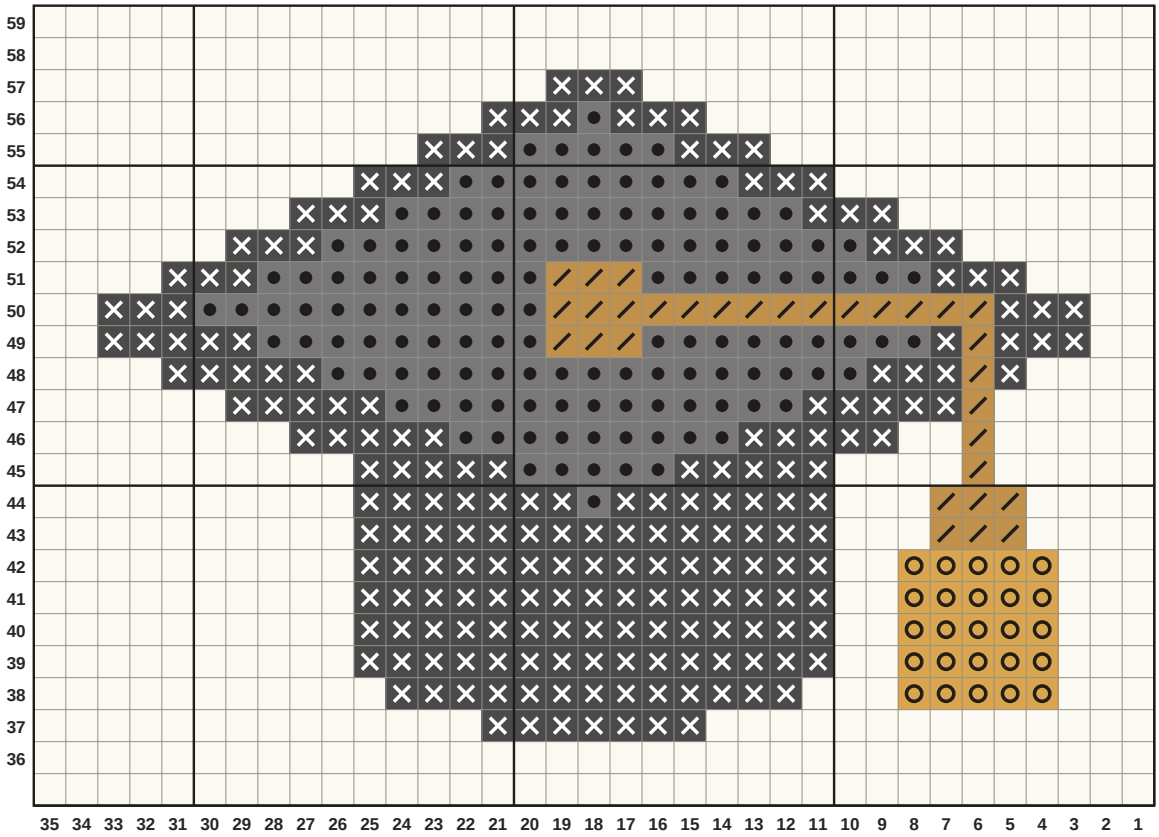
Graph

35 squares wide and 25 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.

A cream, no symbol, 480 squares
B black, cross, 202 squares
C gray, dot, 137 squares
D dark gold, slash, 31 squares
E gold, ring, 25 squares



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)

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☐ **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**	3 A, 1 E*, 3 A*	(7 blocks)
☐ **Row 8**	3 A, 2 E, 3 A	(8 blocks)
☐ **Row 9**	3 A, 3 E, 3 A	(9 blocks)
☐ **Row 10**	3 A, 4 E, 3 A	(10 blocks)
☐ **Row 11**	3 A, 5 E, 3 A	(11 blocks)
☐ **Row 12**	4 A, 4 E, 4 A	(12 blocks)
☐ **Row 13**	4 A, 1 D*, 3 E, 5 A	(13 blocks)
☐ **Row 14**	6 A, 2 E, 2 D, 4 A	(14 blocks)
☐ **Row 15**	5 A, 2 D, 1 E#, 2 A, 2 B*, 3 A*	(15 blocks)
☐ **Row 16**	3 A, 3 B, 3 A, 2 D, 5 A	(16 blocks)
☐ **Row 17**	2 A, 1 B*, 2 A*#, 1 D, 4 A, 5 B, 2 A	(17 blocks)
☐ **Row 18**	2 A, 6 B, 4 A, 1 D, 3 B, 2 A	(18 blocks)
☐ **Row 19**	3 A, 2 B, 1 D, 1 B*, 3 A, 7 B, 2 A	(19 blocks)
☐ **Row 20**	2 A, 8 B#, 1 A#, 3 B, 1 D, 1 B, 4 A	(20 blocks)
☐ **Row 21**	4 A, 1 B, 1 D, 13 B, 2 A	(21 blocks)
☐ **Row 22**	2 A, 12 B, 1 C*, 1 D, 1 B, 5 A	(22 blocks)
☐ **Row 23**	6 A, 1 B, 1 D, 2 C, 11 B, 2 A	(23 blocks)
☐ **Row 24**	3 A, 9 B, 3 C, 1 D, 1 C*, 1 B, 6 A	(24 blocks)
☐ **Row 25**	7 A, 1 B, 1 C, 1 D, 4 C, 8 B, 3 A	(25 blocks)

Even rows

☐ **Row 26**	*New block.* 3 A, 7 B, 5 C, 1 D, 1 C, 1 B, 7 A	(25 blocks)
☐ **Row 27**	*Slip stitches.* 6 A, 1 B, 2 C, 1 D, 6 C, 6 B, 3 A	(25 blocks)
☐ **Row 28**	*New block.* 4 A, 6 B, 5 C, 1 D, 2 C, 1 B, 6 A	(25 blocks)
☐ **Row 29**	*Slip stitches.* 6 A, 1 B, 2 C, 1 D, 5 C, 6 B, 4 A	(25 blocks)
☐ **Row 30**	*New block.* 5 A, 5 B, 5 C, 1 D, 3 C, 1 B, 5 A	(25 blocks)

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☐ **Row 31**	*Slip stitches.* 5 A, 1 B, 3 C, 2 D, 3 C, 5 B, 6 A	(25 blocks)
☐ **Row 32**	*New block.* 7 A, 4 B, 3 C, 2 D, 3 C, 1 B, 5 A	(25 blocks)
☐ **Row 33**	*Slip stitches.* 4 A, 1 B, 3 C, 3 D, 3 C, 3 B, 8 A	(25 blocks)
☐ **Row 34**	*New block.* 9 A, 3 B, 3 C, 2 D, 3 C, 1 B, 4 A	(25 blocks)
☐ **Row 35**	*Slip stitches.* 4 A, 1 B, 3 C#, 1 D#, 4 C, 2 B, 10 A	(25 blocks)

Decrease rows

☐ **Row 36**	10 A, 1 B, 9 C, 1 B, 3 A	(24 blocks)
☐ **Row 37**	3 A, 1 B, 8 C, 2 B, 9 A	(23 blocks)
☐ **Row 38**	8 A, 2 B, 8 C, 1 B, 3 A	(22 blocks)
☐ **Row 39**	2 A, 1 B, 9 C, 1 B, 8 A	(21 blocks)
☐ **Row 40**	7 A, 2 B, 7 C, 2 B, 2 A	(20 blocks)
☐ **Row 41**	2 A, 3 B, 6 C, 2 B, 6 A	(19 blocks)
☐ **Row 42**	6 A, 1 B, 5 C, 3 B, 3 A	(18 blocks)
☐ **Row 43**	4 A, 3 B, 3 C, 2 B, 5 A	(17 blocks)
☐ **Row 44**	4 A, 2 B, 2 C, 3 B, 5 A	(16 blocks)
☐ **Row 45**	6 A, 3 B#, 1 C#, 1 B, 4 A	(15 blocks)
☐ **Row 46**	3 A, 4 B, 7 A	(14 blocks)
☐ **Row 47**	8 A, 3 B, 2 A	(13 blocks)
☐ **Row 48**	2 A#, 1 B#, 9 A	(12 blocks)
☐ **Row 49**	11 A	(11 blocks)
☐ **Row 50**	10 A	(10 blocks)
☐ **Row 51**	9 A	(9 blocks)
☐ **Row 52**	8 A	(8 blocks)
☐ **Row 53**	7 A	(7 blocks)
☐ **Row 54**	6 A	(6 blocks)
☐ **Row 55**	5 A	(5 blocks)
☐ **Row 56**	4 A	(4 blocks)
☐ **Row 57**	3 A	(3 blocks)
☐ **Row 58**	2 A	(2 blocks)
☐ **Row 59**	1 A#	(1 block)
☐	Fasten off, leaving a 6 in (15 cm) tail.	

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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: 59 rows; 875 blocks; 182 color changes, at most 6 in a row; 11 small balls; 22 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.
- 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: 11 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 7 balls hang from the work at one time: the row with the most color changes has 6.
- Close shades: D and E are both gold. 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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