# Cosmic Cal    Part 1

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## US terms used throughout
## Abbreviations

| St, sts | Stitch, stitches | Sc | Single crochet | Bl | Back Loop |
|---------|------------------|-----|------------------|-----|-----------|
| R | Round | Hdc | Half double crochet | Fl | Front Loop |
| Ch | Chain | Dc | Double crochet | Bp | Back Post |
| Sl-st | Slip stitch | Tr | Treble crochet | Fp | Front Post |
| Yo | Yarn over | Dtr | Double treble crochet | | |

*[] Hints: Are typed in italics and coloured purple, they are to help and guide you and hopefully make life a little easier, especially for beginners.*

*Reference to photos is [P] with the relevant photo number*

* * Repeat instructions between asterisks the amount of times specified.
   This is normally a repeat for a complete side and will consist of multiple instructions.

() or ( ) Repeat instructions between parentheses the amount of times specified.
   This is a lower level repeat.

## Special Stitches

**Tr7tog:** Yo twice, place hook in stitch to be worked yo and pull up a loop, 3 loops on hook, yo and pull through 2 loops twice. Repeat in next 6 sts/sps to be worked. Yo and pull through all 8 loops.

**Fpdc3tog:** Yo, place hook around front post of st, yo and pull up a loop, yo and pull through 2 loops, leaving 2 loops on hook, repeat around next 2 sts, yo and pull through all 4 loops.

**Tr Cluster:** Yo twice, insert hook into indicated st/sp, yo and pull through 2 loops twice. Repeat twice more, in same st/sp. (4 loops on hook), yo and pull through all 4 loops.

**Ruffle Stitch:** Made over 3 sts. Flsc in indicated stitch, and working around the front of the post of the same st, from top to bottom (hdc, 3 dc), skip next st, flsc in next st.

**Sc3tog:** Place hook in stitch to be worked yo and pull up a loop, 2 loops on hook. Repeat in next 2 sts/sps, 4 loops on hook. Yo and pull through all 4 loops.

**Bead stitch:** dc in st/sp, working around the post of dc, yo and pull up a loop, 3 times. Yo and pull through all 7 loops on hook. To make a **Beginning Bead stitch**, ch 3 or make a standing dc, and continue as normal.

**Puff Stitch:** Yo, insert hook in stitch or space yo and pull up a loop [*to height of adjacent sts*], 4 times (9 loops on hook), yo and pull through all 9 loops, and ch 1 to close. This closing chain is not counted as a stitch. To make a **Beginning Puff stitch**, work as if you are making a standing stitch.

**Long Sc:** Insert hook into stitch or space one or more rounds below next st *as instructed* yo and pull up a loop to level of current round, yo and pull through both loops on hook.

**Popcorn:** Make 5 dc in same st, remove hook from loop and insert from front to back of 1st dc and then into dropped loop and pull through. Ch 1 to close. This closing chain is not counted in any chains you are asked to make after the popcorn. To make a **beginning popcorn**, simply start with a standing dc or ch 3 as your 1st st.

**Folding Sc:** Insert hook into back loop of next tr and into back loop of corresponding stitch in previous round, yo and pull through 2 loops, yo and pull through two loops.

**Fptr3tog:** Yo twice, place hook around front post of st, yo and pull up a loop, yo and pull through 2 loops twice, leaving 2 loops on hook, repeat around next 2 sts (4 loops on hook). Yo and pull through all 4 loops.

**Fptr5tog:** Yo twice, place hook around front post of st, yo and pull up a loop, yo and pull through 2 loops twice, leaving 2 loops on hook, repeat around next 4 sts. (6 loops on hook). Yo and pull through all 6 loops.

1. Starting with a magic ring, ch 1 and 12 hdc into ring.
Join to 1st hdc with a sl-st.
Stitch count: 12 hdc.



2. Ch 3 [*counts as dc*] 2 dc in same st,
 (ch 1, skip next st, 3 dc in next st) 5 times, ch 1.
Join to top of ch-3, fasten off, and secure ends.
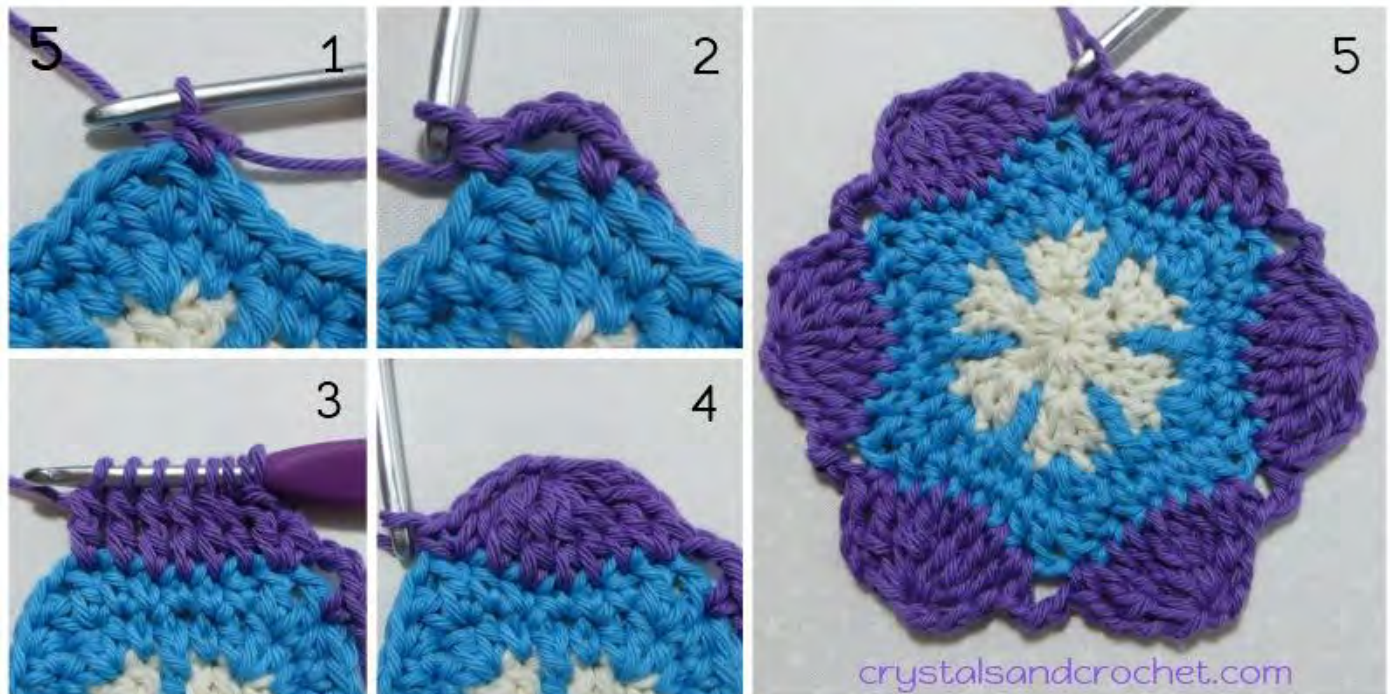Stitch count: 18 dc, 6 ch-1 spaces.



3. Join with a standing sc in dc before any ch-1 space, [P1]
(working in front of ch-1 space, tr in skipped st R1 [P2], sc in next st, in next st (hdc, dc, hdc) sc in next st) 6 times, omit last sc. [P3,4]
Join to standing sc with a sl-st.
Stitch count: 12 sc, 12 hdc, 6 dc, 6 tr.

4. Ch 1 and sc in same st [P1], sc in next 2 sts
(hdc in next st, in next st (dc, ch 1, dc), hdc in next st, sc in next 3 sts) 6 times, omit last 3 sc. [P2,3]
Join to 1st sc, fasten off, and secure ends.
Stitch count: 18 sc, 12 hdc, 12 dc, 6 ch-1 spaces.

5. Join with a standing sc in dc before any ch-1 space, [P1]
(ch 3, skip ch-1 space, sc in next st [P2], ch 3, tr7tog over same st and next 6 sts [P3],
ch 4 [*do not make 1st ch too tight*], sc in same st as last partial tr) 6 times, omit last sc.
[P4,5]
Join to standing sc with a sl-st.
Stitch count: 12 sc, 6 tr7tog, 12 ch-3 spaces, 6 ch-4 spaces.

6. Ch 1 and sc in same st, [P1]
(ch 3, sc in next st[P2], 9 tr into eye of tr7tog, sc in next st) 6 times, omit last sc. [P3,4]
Join to 1st sc, fasten off, and secure ends.
Stitch count: 12 sc, 6 half circles of 9 tr each, 6 ch-3 spaces.



7. Working in front of both ch-3, join with a standing dc in ch-1 space R4 [P1], 2 dc in same space, [P2]
(skip next st R6, sc in next 3 sts, hdc in next st, in next st [5th tr] (2 dc, ch 1, 2 dc), hdc in next st, sc in next 3 sts, skip next st, working in front of both ch-3, 3 dc in ch-1 space R4) 6 times, omit last 3 dc. [P3,4,5]
Join to standing dc with a sl-st.
Stitch count: 36 sc, 12 hdc, 42 dc, 6 ch-1 spaces.

8. Ch 1 and **fpdc3tog** around same st and next 2 sts [*3 dc's*], [P1]
(dc in next 6 sts, in ch-1 space (2 dc, ch 2, 2 dc), dc in next 6 sts [*take care not to miss the 1st hidden st*], **fpdc3tog** around next 3 dc) 6 times, omit last fpdc3tog. [P2,3]
Join to 1st fpdc3tog, fasten off, and secure ends.
Stitch count: 96 dc, 6 fpdc3tog, 6 ch-2 spaces.



*Hint: Stitch counts are now given per repeat.*

9. Join with a standing **bpdc** around last st before any ch-2 space, [P1]
*in ch-2 space (2 hdc, ch 2, 2 hdc) [P2], **bpdc** around next 8 sts, **fpsc** around next st, **bpdc** around next 8 sts. *[P3,4]
Repeat from * to * 6 times, omit last bpdc.
Join to standing bpdc with a sl-st.
Stitch count: per repeat: 4 hdc, 1 fpsc, 16 bpdc, 1 ch-2 space.

10. Ch 1 and sc in same st [P1], sc in next 2 sts,
*ch 2, skip ch-2 space, sc in next 7 sts, skip next 3 sts,
in next st [*fpsc*] **(**(tr cluster, ch 3) twice, tr cluster**)**, skip next 3 sts, sc in next 7 sts.
*[P2,3]

Repeat from * to * 6 times, omit last 3 sc.
Join to 1st sc, fasten off, and secure ends.
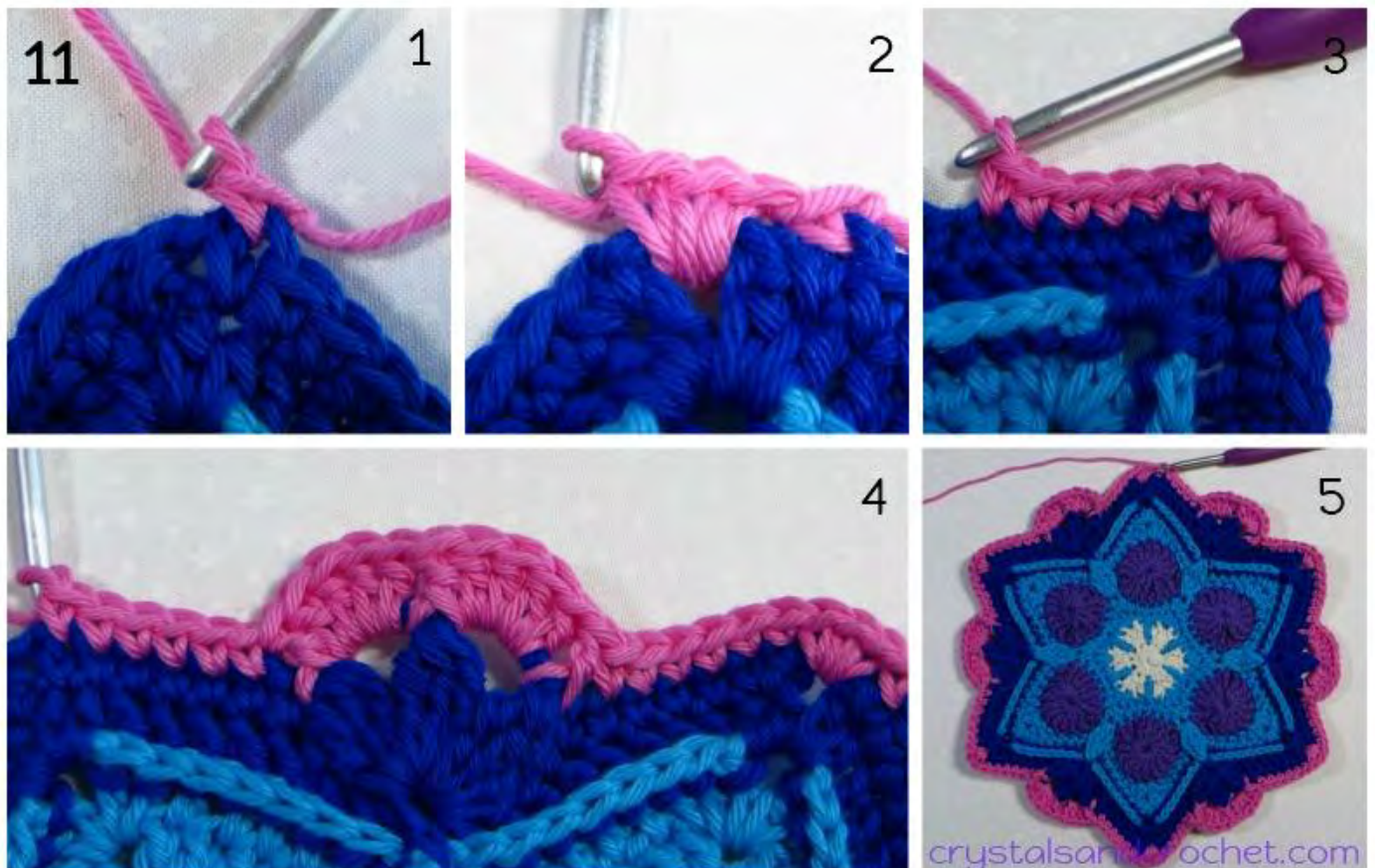Stitch count: per repeat: 14 sc, 3 tr clusters, 2 ch-3 spaces, 1 ch-2-point space.



11. Join with a standing sc in last st before any ch-2 space, [P1]
*working over ch-2, 3 sc in ch-2 space R9 [P2], sc in next 6 sts [*take care not to skip the 1st hidden st*] [P3], skip next st,
(**fpdc** around next cluster, 4 dc in next ch-3 space) twice, **fpdc** around next cluster,
skip next st, sc in next 6 sts. *[P4,5]

Repeat from * to * 6 times, omit last sc.
Join to standing sc with a sl-st.
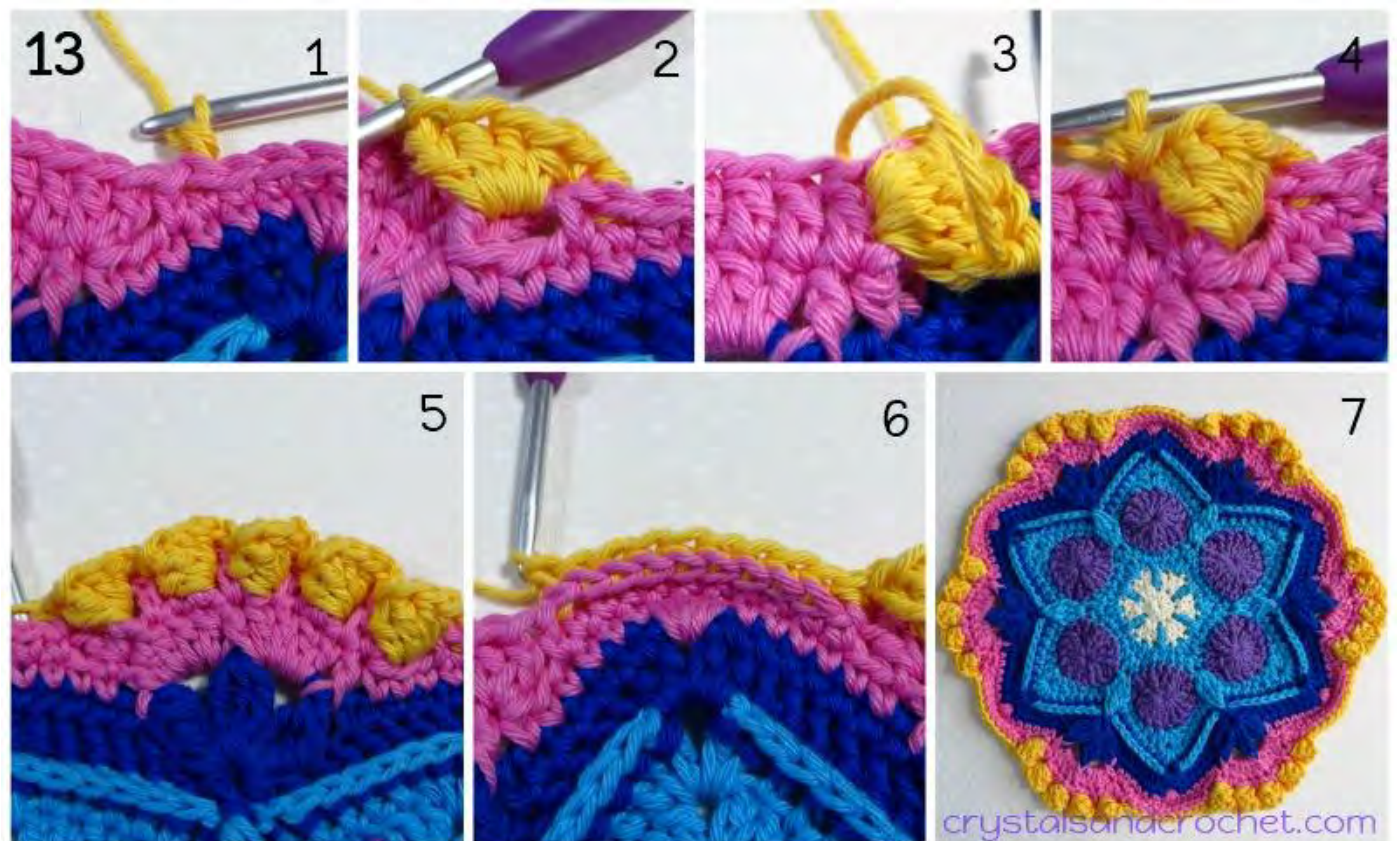Stitch count: per repeat: 15 sc, 8 dc, 3 fpdc.

12. Ch 1 and sc in same st [P1], sc in next 7 sts,
*skip next 2 sts, 2 dc in next st [*fpdc*], dc in next 4 sts, 3 dc in next st, dc in next 4 sts, 2 dc in next st, skip next 2 sts, sc in next 11 sts. *[P2,3]

Repeat from * to * 6 times, omit last 8 sc.
Join to 1st sc, fasten off, and secure ends.
Stitch count: per repeat: 11 sc, 15 dc.



13. Join with a standing **bpsc** in 10th sc of any repeat, [P1]
*skip next st, (in next st (flsc, **fphdc**, 3 **fpdc**) skip next st, flsc in next st [*ruffle st made*]) [P2,3,4,5] 5 times, skip next st, **bpsc** around next 9 sts. *[P6,7]

Repeat from * to * 6 times, omit last bpsc.
Join to standing bpsc, fasten off, and secure ends.
Stitch count: per repeat: 9 bpsc, 5 ruffle sts of 2 flsc, 1 fphdc and 3 fpdc each.

14. Join with a standing hdc in last bpsc of any repeat R13, [P1]
*bldc in next st R12, (dc in next st R12, bldc in next 2 sts R12) 4 times, dc in next st R12, bldc in next st R12, skip flsc, hdc in next 3 sts R13, sc in next 3 sts R13, hdc in next 3 sts R13. *[P2,3]

Repeat from * to * 6 times, omit last hdc.
Join to standing hdc with a sl-st.
Stitch count: per repeat: 3 sc, 6 hdc, 5 dc, 10 bldc.



15. Ch 1 and sc in same st, sc in next 2 sts, [P1]
*Large point: hdc in next st, dc in next 3 sts, tr in next st, in next st (tr, dtr, tr), tr in next st, dc in next 3 sts, hdc in next st, sc in next 3 sts, [P2]

Small point: hdc in next st, dc in next 2 sts, tr in next st, dc in next 2 sts, hdc in next st, sc in next 3 sts. *[P3,4,5]

Repeat from * to * 6 times, omit last 3 sc.
Join to 1st sc with a sl-st.
Stitch count: per repeat: 6 sc, 4 hdc, 10 dc, 5 tr, 1 dtr.

16. Ch 1 and sc3tog over same st and next 2 sc, [P1]
* Large point: hdc in next 3 sts, dc in next 3 sts, in next st [*dtr*] (2 dc, tr, 2 dc), dc in next 3 sts, hdc in next 3 sts, sc3tog over next 3 sts, [P2]

Small point: sc in next 3 sts, in next st [*tr*] (sc, ch 2, sc), sc in next 3 sts, sc3tog over next 3 sts. *[P3,4]

Repeat from * to * 6 times, omit last sc3tog.
Join to 1st sc3tog, fasten off, and secure ends.
Stitch count: per repeat: 8 sc, 2 sc3tog, 6 hdc, 10 dc, 1 tr, 1 ch-2 space.



17. Join with a beginning bead st in sc3tog at beginning of any small point, [P1]
*Small point: (ch 1, skip next st, puff st in next st) twice, ch 1, puff st in ch-2 space, ch 1, (puff st in next st, ch 1, skip next st) twice, [P2]

Large point: (bead st in next st, ch 1, skip next 2 sts) 3 times,
in point tr (dc, bead st, dc),
(ch 1, skip next 2 sts, bead st in next st) 3 times. *[P3,4]

Repeat from * to * 6 times, omit last bead st.
Join to beginning bead st, fasten off, and secure ends.
Stitch count: per repeat: 2 dc, 5 puff st, 7 bead st, 12 ch-1 spaces.

*Hint: work all tr in front of ch-1 spaces.*

18. Join with a standing **fpsc** around last puff st of any small point, [P1]
*Large point: tr in next skipped st R16, (2 sc in next bead st, tr in 2nd skipped st R16) 3 times, sc in next dc, sc in 1st st of next bead st, ch 2, sc in 2nd st of same bead st, sc in next dc, (tr in 1st skipped st R16, 2 sc in next bead st) 3 times, tr in next skipped st R16, [P2]

Small point: **fpsc** around next puff st, sc in next ch-1 space,
(**fpsc** around next puff st, 2 sc in next ch-1 space) twice,
**fpsc** around next puff st, sc in next ch-1 space, **fpsc** around next puff st. *[P3,4,5]

Repeat from * to * 6 times, omit last fpsc.
Join to standing fpsc with a sl-st.
Stitch count: per repeat: 22 sc, 5 fpsc, 8 tr, 1 ch-2 space.



19. Ch 1 and sc3tog in same st and next 2 sts, [P1]
* Large point: hdc in next 10 sts, in ch-2 space (2 hdc, ch 2, 2 hdc), hdc in next 10 sts, sc3tog over next 3 sts, [P2]

Small point: sc in next 4 sts, 3 sc in next st, sc in next 4 sts, sc3tog over next 3 sts. *[P3,4]

Repeat from * to * 6 times, omit last sc3tog.
Join to 1st sc3tog, fasten off, and secure ends.
Stitch count: per repeat: 11 sc, 2 sc3tog, 24 hdc, 1 ch-2 space.

*Hint: take care not to include post of 1st hdc which forms part of sc3tog in bpdc.*
20. Join with a standing sc3tog over last sc of small point, sc3tog and 1st hdc of large point, [P1]
*Large point: **bpdc** around next 11 sts, in ch-2 space (2 hdc, ch 2, 2 hdc), **bpdc** around next 11 sts, sc3tog over next 3 sts, [P2]
Small point: sc in next 4 sts, 3 sc in next st, sc in next 4 sts, sc3tog over next 3 sts. *[P3,4]

Repeat from * to * 6 times, omit last sc3tog.
Join to standing sc3tog with a sl-st.
Stitch count: per repeat: 11 sc, 2 sc3tog, 4 hdc, 22 bpdc, 1 ch-2 space.



21. Ch 4 [*counts as dc plus ch-1*], [P1]
* Large point: skip next st, (dc in next st, ch 1, skip next st) 6 times,
in ch-2 space (dc, ch 2, dc),
(ch 1, skip next st, dc in next st) 7 times, [P2]
 Small point: hdc in next 5 sts, 3 hdc in next st, hdc in next 5 sts, dc in next st [*sc3tog*], ch 1. *[P3,4,5]

Repeat from * to * 6 times, omit last dc and ch-1.
Join to 3rd ch, fasten off, and secure ends.
Stitch count: per repeat: 13 hdc, 16 dc, 14 ch-1 spaces, 1 ch-2 space.

22. Join with a standing sc in last hdc of any small point, [P1]

\* Large point: (**bpdc** around next st, hdc in next ch-1 space) 7 times, **bpdc** around next st, in ch-2 space (2 hdc, ch 2, 2 hdc), (**bpdc** around next st, hdc in next ch-1 space) 7 times, **bpdc** around next st, [P2]

Small point: (sc in next st, long sc in next st R20) 3 times, 3 sc in next st, (long sc in next st R20, sc in next st) 3 times. \*[P3,4,5]

Repeat from \* to \* 6 times, omit last sc.
Join to standing sc, fasten off, and secure ends.
Stitch count: per repeat: 9 sc, 6 long sc, 18 hdc, 16 bpdc.

23. Join with a standing sc in hdc made in 6th ch-1 space after large point ch-2 space, [P1]
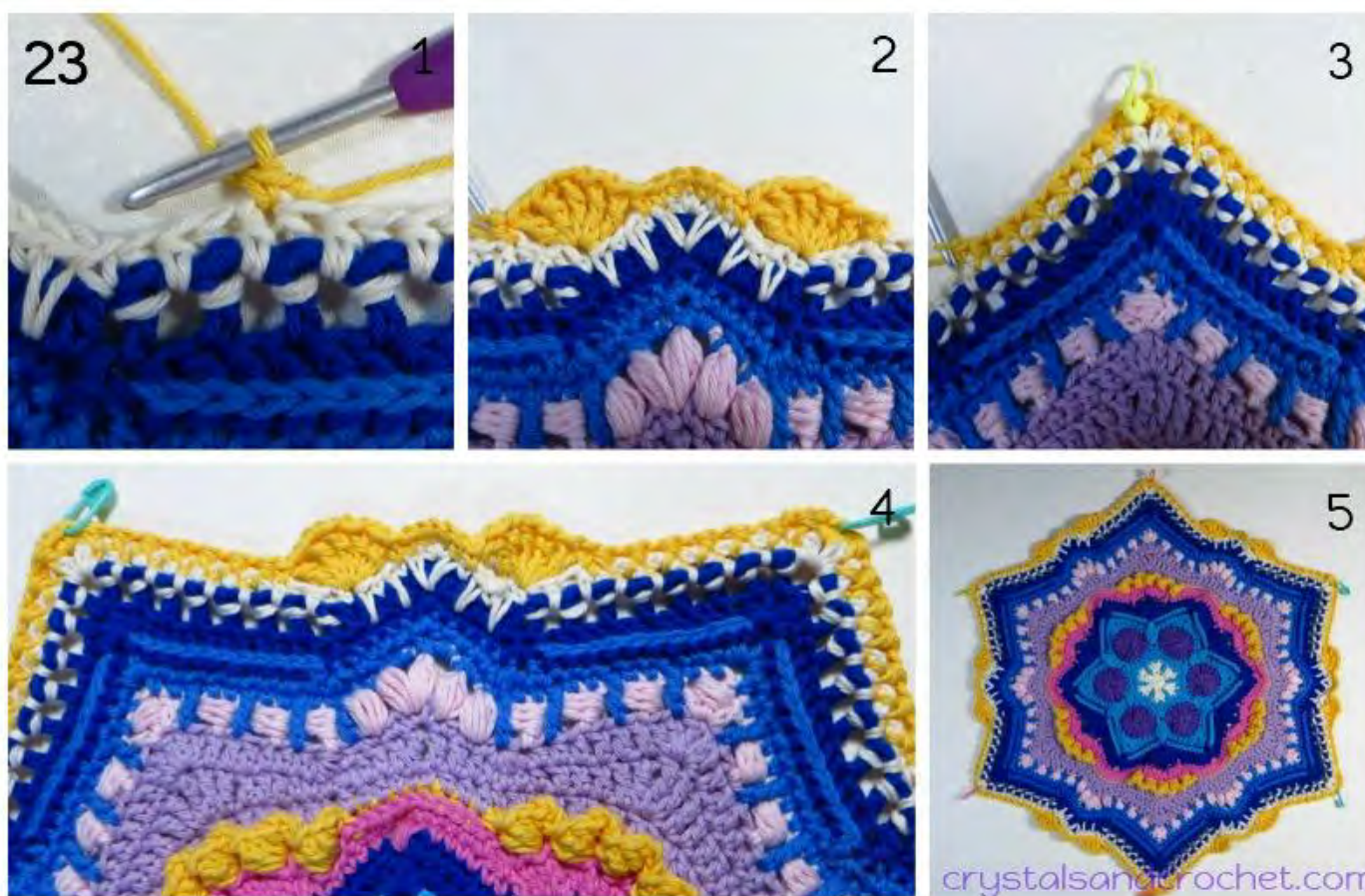* Small point: skip next 3 sts, in next st [1st sc] ((tr, ch 1) 4 times, tr), skip next 3 sts, sc in next 7 sts, skip next 3 sts, in next st [last sc] ((tr, ch 1) 4 times, tr), skip next 3 sts, [P2]

Large point: sc in next st, (fphdc around next st, bphdc around next st) 6 times, fphdc around next st, 3 sc in ch-2 space,
(fphdc around next st, bphdc around next st) 6 times, fphdc around next st, sc in next st. *[P3,4,5]

Repeat from * to * 6 times, omit last sc.
Join to standing sc, fasten off, and secure ends.
Stitch count: per repeat: 12 sc, 14 fphdc, 12 bphdc, 10 tr, 8 ch-1 spaces.



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24. Join with a standing <u>fltr</u> in 6<sup>th</sup> fphdc after top of large point, [P1]
*skip next 3 sts, (popcorn in next st, ch 1, skip next ch-1 space) 4 times, popcorn in next st, skip next 3 sts, sc in next st [P2,3], skip next 3 sts, (popcorn in next st, ch 1, skip next ch-1 space) 4 times, popcorn in next st, skip next 3 sts [P4], <u>fltr</u> in next 12 sts, 3 <u>fltr</u> in next st, <u>fltr</u> in next 12 sts. *[P5,6,7]

Repeat from * to * 6 times, omit last fltr.
Join to standing fltr with a sl-st in back loop only.
Stitch count: per repeat: 1 sc, 27 fltr, 10 popcorns, 8 ch-1 spaces.



25. Ch 1 and make a folding sc through back loop of same tr and back loop of same st R23, [P1,2]
*(sc in next popcorn, sc in next ch-1 space) 4 times, sc in next popcorn, skip next st, (sc in next popcorn, sc in next ch-1 space) 4 times [P3], sc in next popcorn, folding sc in next 12 sts R23, 3 folding sc in next st R23 [*place stitch marker in 2<sup>nd</sup> folding sc*], folding sc in next 12 sts R23. *[P4,5,6]

Repeat from * to * 6 times, omit last folding sc.
Join to 1<sup>st</sup> folding sc, fasten off, and secure ends.
Stitch count: per repeat: 18 sc, 27 folding sc.

26. Join with a standing sc in any marked st, ch 2, sc in same st, [P1,2]
*sc in next 2 sts, hdc in next 3 sts, dc in next 9 sts, hdc in next st,
sc in next st, 2 sc in next 2 sts, sc in next st,
hdc in next st, dc in next st,
working in front of R25 5 tr in skipped st R24, skip next 2 sts,
dc in next st, hdc in next st, sc in next st, 2 sc in next 2 sts, sc in next st, hdc in next st,
dc in next 9 sts, hdc in next 3 sts, sc in next 2 sts, in next st (sc, ch 2, sc). *[P3,4]

Repeat from * to * 6 times, omit last sc, ch 2, sc.
Join to standing sc, fasten off, and secure ends.
Stitch count: per repeat: 18 sc, 10 hdc, 20 dc, 5 tr, 1 ch-2 space.

27. Join with a standing **fpdc** around last st before any ch-2 space, [P1]
*in ch-2 space (2 hdc, ch 2, 2 hdc), **fpdc** around next 9 sts, [P2]
**fptr3tog** around next 3 sts, twice [P3]
**fpdc** around next st, **fphdc** around next 6 sts, **fpsc** around next 2 sts,
ch 1, skip next 2 sts, <u>blsc</u> in next st [*3rd tr*] ch 1, skip next 2 sts,
**fpsc** around next 2 sts, **fphdc** around next 6 sts, **fpdc** around next st,
**fptr3tog** around next 3 sts twice, **fpdc** around next 9 sts. * [P4]

Repeat from * to * 6 times, omit last fpdc.
Join to standing fpdc with a sl-st.
Stitch count: per repeat: 1 blsc, 4 fpsc, 4 hdc, 12 fphdc, 20 fpdc, 4 fptr3tog, 2 ch-1 spaces,
1 ch-2 space.



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28. Ch 1 and **fpdc** around same st, fpdc around next 2 sts, [P1]
*3 hdc in ch-2 space, **fpdc** around next 22 sts, dc in next ch-1 space, dc in next st, dc in
next ch-1 space, **fpdc** around next 22 sts. *[P2]

Repeat from * to * 6 times, omit last 3 fpdc.
Join to 1st fpdc with a sl-st.
Stitch count: per repeat: 3 hdc, 3 dc, 44 fpdc.



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29. Ch 1 and **fpsc** around same st [P1], **fpsc** around next 3 sts,
*3 sc in next st [*2nd hdc*], **fpsc** around next 4 sts, **fphdc** around next 2 sts, **fpdc** around next 10 sts, **fphdc** around next 2 sts, **fpsc** around next 13 sts, **fphdc** around next 2 sts, **fpdc** around next 10 sts, **fphdc** around next 2 sts, **fpsc** around next 4 sts. *[P2]

Repeat from * to * 6 times, omit last 4 fpsc.
Join to 1st fpsc, fasten off, and secure ends.
Stitch count: per repeat: 3 sc, 21 fpsc, 8 fphdc, 20 fpdc.



30. Join with a standing sc in 1st sc made in any point, [P1]
*3 sc in point st [*2nd sc*], sc in next 25 sts, **fptr5tog** around 5 tr R26, skip next st, sc in next 25 sts. *[2,3]

Repeat from * to * 6 times, omit last sc.
Join standing sc, fasten off, and secure ends.
Stitch count: per repeat:  53 sc, 1 fptr5tog.

Part 1 complete.

Please **do not** be tempted to block your work, to take a great photo, simply smooth out with your hands.
Blocking your work may stretch it out of shape, and make the next part more difficult for you.

Using any of the Double knit yarn packs and a 4mm hook your work will measure:
11 ½ inches/29 cm per side, 22 inches/56 cm point to point.

Aran yarn with a 5.5mm hook will measure:
14 inches/36 cm per side, 30 inches/77 cm point to point.