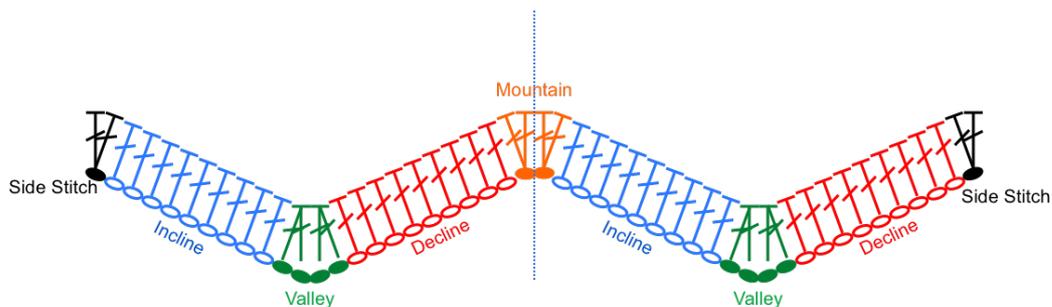# Ripple Math 4

As promised, we are going to do the math of two ripples, just as a warm up to the *Ready… Steady… Ripple!* CAL. Here is the second one. This one is a bit more difficult as the mountain needs more than one stitch.

Let just first review the three rules to the ripple:

- the mountain and the valley must be perfect opposites;

- the decline must match the incline in the number of stitches;

- the side stitch must be either 1/2 of 2/3 of the mountain.

The mountain: dc2 in one stitch x2

The Valley: dc2tog x2

Side Stitch: 2 dc

Decline / Incline: 9 dc in each

Rule Check

In the valley, we decrease two, in the mountain, we increase two, mountain and valley are opposites.

Decline and Incline both 9 stitches each.

Side Stitch is 2 stitches, mountain is four – side stitch is 1/2 of mountain.

To calculate

To calculate the foundation chain, we count the stitches from the side stitch on the right, this time NOT to the stitch just before the mountain, instead, we are breaking the mountain in half as the mountain is more than one stitch.

Side Stitch (1) + Decline (9) + Valley (4) + Incline (9) + Half of Mountain (1) = 24 stitches

You will need multiples of 24 for decline / incline of 9. You could thus start with 24, 48, 72 …..

Size Variation

If you want to change the depth of the ripple effect, you can adjust the decline and incline – both with the same number of stitches.

Multiples of 14 for decline/incline of 4 (start with 28, 42, 56…)

Multiples of 16 for decline/incline of 5 (start with 32, 48, 64…)

Multiples of 18 for decline/incline of 6 (start with 36, 54, 72…)

Multiples of 20 for decline/incline of 7 (start with 40, 60, 80…)

Multiples of 22 for decline/incline of 8 (start with 44, 66, 88…)

Why did we not have the extra one added like the previous times? Because the mountain comprises two stitches, we divided the repeat in the middle of the mountain. The extra mountain stitch makes provision for the last side stitch.

We are done with the math behind the ripple. Don't stress too much if this is still a bit overwhelming. I have done all the calculations for you in the CAL. You don't have to do anything. You just have to count while you crochet to make sure you follow my pattern! Easy!

Tomorrow, I will give you the base pattern of the ripple we are going to do, so that you can make a test swatch. This has a dual purpose. You need a test swatch to figure out how big your blanket is going to be with your personal tension, or so that you could adjust your hook size to get to more or less the same size as mine, AND, you will get to practice the pattern! Okay…. a small bit of it…