15	increases	over	100 sts
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	<u> </u>
15 → -10	100.0
$\rightarrow \frac{-10}{5}$	- <u>90</u>
<b>) )</b>	10

6 x **5** = 30 sts

6+1 = 7

7 x 10 = 70 sts

**5 + 10 = 15 =** # of increases

30 + 70 = 100 = number of sts at start

Increase every 6 sts x 5, and every 7 sts x 10

To work this, spread the different st counts out:

[(K7, m1) x 2, k6, m1] x 5 = 15 incs

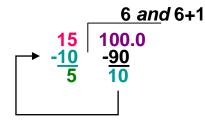
**BUT,** that would have a k7 at the beg and end with the m1...not good! So, move the sts a round a bit:

K3, [(m1, k7) x 2, m1, k6] x 4, (m1, k7) x 2, m1, k3

The k3's add up to the last k6

NOTE: this assumes that you are using an inc that does not take a st to create (i.e. kf&b uses a st to do the inc, so numbers would change)

## 15 decreases over 100 sts



6 x **5** = 30 sts

6+1 = 7

7 x **10** = 70 sts

**5 + 10 = 15 = #** of decreases

30 + 70 = 100 = number of sts at start

Dec every 6 sts x 5, and every 7 sts x 10... realizing that every dec takes 2 sts to do The numbers are the same but the action is different. Each dec takes 2 sts to do the action, so use 5 and 4 instead of 7 and 6.

To work this, spread the different st counts out:

[(K5, k2tog) x 2, k4, k2tog] x 5 = 15 decs

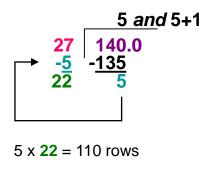
**BUT,** that would have a k5 at the beg and end with the k2tog...not good! So, move the sts a round a bit:

K2, [(k2tog, k5) x 2, k2tog, k4] x 4, (k2tog, k5) x 2, k2tog, k2

The k2's add up to the last k4

Example for Sleeve Increases:
Gauge = 5 sts and 7 rows per inch
Top width = 20" x 5 sts per inch = 100 sts
Hem width = 9" x 5 sts / in = 45 sts (round to 46 to be an even number—if total # of sts was an odd number, this would be kept an odd number)
Calculate decreases:
100 - 46 = 54
Divide by 2 = 27 PAIRS of increases = A
Length of sleeve = 20 inches x 7 rows / in = 140 rows for sleeve length = B
B divided by A = 140/27 - 5.2 = # of rows between each dec
Must be a whole\* number, so start with 5 and use calculation below

## 27 increases over 140 rows



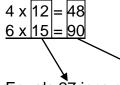
5+1 = 6

6 x **5** = 30 rows

**22** + **5** = **27** = # of increases

110 + 30 = **140** = number of rows

Note: It is preferred to do increases on an **even** row count so t hey are always done on the **right side**. For the example above, I would estimate with every 4 & every 6 rows as follows:



Equals 27 incs over 138 rows, working the additional 2 rows plain. You can play with the numbers and come up with many different combinations that come close to 140 rows.