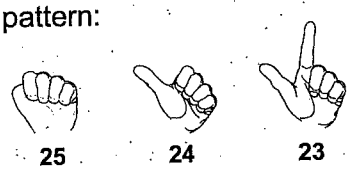
#2

~~PAG 2~~: Decreasing Sequences

In a **decreasing sequence**, each number is less than the one before it.

Inder wants to continue the number pattern: 25 , 23 , 21 , ?

She finds the **difference** between the first two numbers:



(-2)
25 , 23 , 21 , ?

(-2) (-2)
25 , 23 , 21 , ?

She finds that the difference between the other numbers in the pattern is also 2. So the pattern was made by subtracting 2.

(-2) (-2) (-2)
25 , 23 , 21 , 19

The final number in the pattern is 19:

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1. Extend the following patterns:

a) 18 , 15 , 12 , ____ , ____ , ____

b) 32 , 26 , 20 , ____ , ____ , ____

c) 52 , 47 , 42 , ____ , ____ , ____

d) 34 , 30 , 26 , ____ , ____ , ____

e) 51 , 46 , 41 , ____ , ____ , ____

f) 84 , 80 , 76 , ____ , ____ , ____

g) 62 , 51 , 40 , ____ , ____ , ____

h) 97 , 89 , 81 , ____ , ____ , ____

i) 71 , 64 , 57 , ____ , ____ , ____

j) 62 , 58 , 54 , ____ , ____ , ____

k) 82 , 73 , 64 , ____ , ____ , ____

l) 84 , 72 , 60 , ____ , ____ , ____

Use decreasing sequences to solve these problems:

2. Judi has saved $49. She spends $8 each day.
   How much money does she have left after 5 days?

3. Yen has a roll of 74 stamps. She uses 7 each day for 4 days.
   How many are left?