

PA4-27: Patterns with Increasing and Decreasing Steps

1. In the sequences below, the step or gap between the numbers increases or decreases.
 Can you see a pattern in the way the gap changes?
 Use the pattern to extend the sequence.

a) 2 , 4 , 7 , 11 , ,

b) 3 , 4 , 6 , 9 , 13 , ,

c) 11 , 14 , 19 , 26 , ,

d) 6 , 8 , 12 , 18 , 26 , ,

e) 17 , 16 , 14 , 11 , ,

f) 32 , 30 , 26 , 20 , ,

g) 31 , 30 , 27 , 22 , ,

h) 110 , 105 , 95 , 80 , 60 , ,

2. Complete the T-table for the 3rd and 4th figures.

Then use the pattern in the gap to predict the number of shaded squares in the 5th and 6th figures.

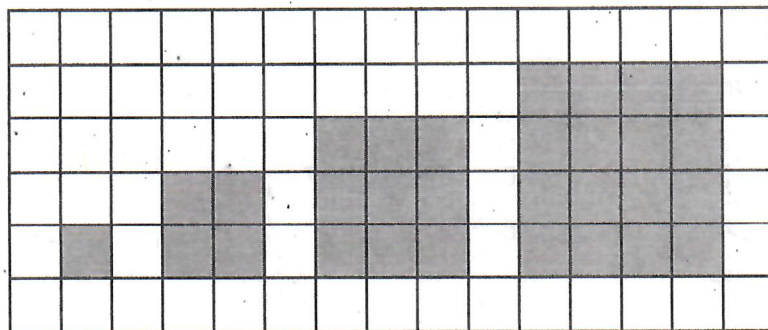


Figure	Number of Squares
1	1
2	4
3	
4	
5	
6	



Write the number of squares added each time here



3. Make a T-table to predict how many squares will be needed for the 5th figure.



Figure 1



Figure 2

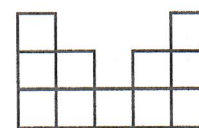


Figure 3