



3. Use Gauss' method to find the following sums.

a)  $1 + 2 + 3 + \dots + 336 + 337 + 338 + 339 + 340$

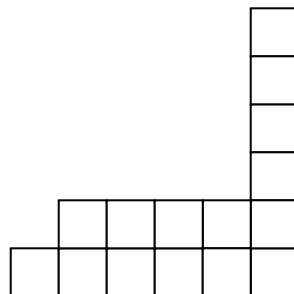
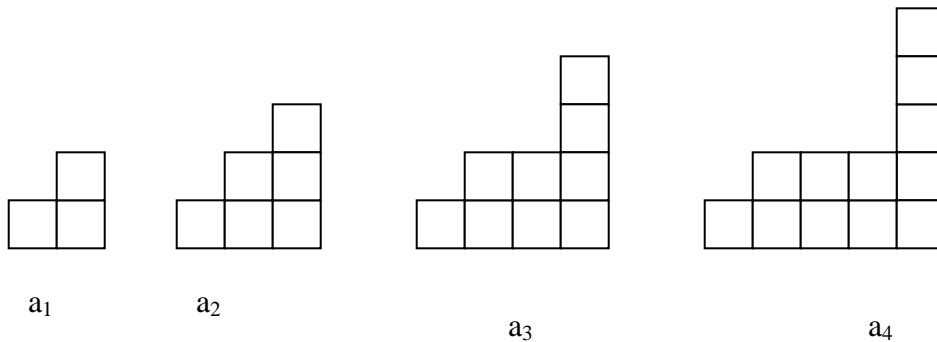
b)  $1 + 3 + 5 + \dots + 995 + 997 + 999$

4. Identify the pattern and find the next three terms.

$1, 2, 7, 19, 41, 76, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

5. In consecutive turns of a Monopoly game, Stacy first paid \$800 for a hotel. She then lost half of her money when she landed on Boardwalk. Next, she collected \$200 for passing GO. She then lost half her remaining money when she landed on Illinois Avenue. Stacy now has \$2500. How much did she have just before she purchased the hotel?

6. Determine the  $n$ th term formula for the number of square tiles in the  $n$ th figure.



$a_5$

