

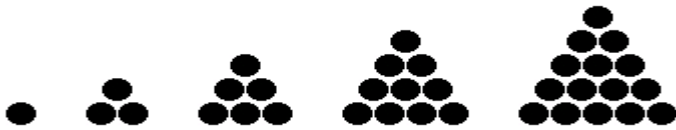
# Algorithm Thinking

## Goals

- Demonstrate an algorithm
- Demonstrate algorithmic thinking for computational problem
- Practice writing step by step procedure to achieve solution to computational problem

## Problem - Triangular Numbers

A triangular number is of the form  $1 + 2 + 3 + \dots + n$ , for some positive  $n$ . These numbers are called triangular because, if you have that many objects, you can arrange them in an equilateral triangle (see figure).



Write an algorithm to determine whether a number denoted as  $x$  is a triangular number or not.