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1 Mathematics

## 6.EE Triangular Tables

## Task

A classroom has triangular tables. There is enough space at each side of a table to seat one child. The tables in the class are arranged in a row (as shown in the picture below).

a. How many children can sit around 1 table? Around a row of two tables? Around a row of three tables?
b. Find an algebraic expression that describes the number of children that can sit around a row of $n$ tables. Explain in words how you found your expression.
c. If you could make a row of 125 tables, how many children would be able to sit around it?
d. If there are 26 children in the class, how many tables will the teacher need to seat all the children around a row of tables?
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