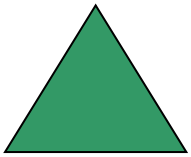
Tri-Triangles

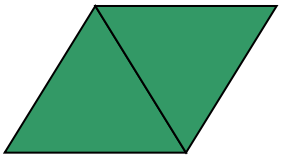
Level B

Your classroom has triangular-shaped tables.



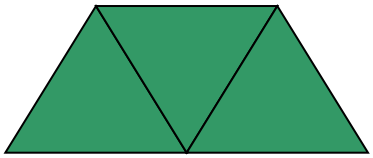
Three students can sit around one table.

Two tables can be pushed together so that two sides are adjacent.



How many students can sit around the tables in this arrangement?

Tables can be added to the arrangement by pushing together tables so that each additional table is adjacent to one side of the row of tables. The arrangement may grow to be a long row of tables.



How many students can sit around three tables in this arrangement?

How many students can sit around five tables in a row arrangement?

Without drawing the arrangement, determine how many students can sit around twelve desks in a row. Explain how you figured it out.

How many tables in a row are needed to seat 105 students?

Explain your answer.