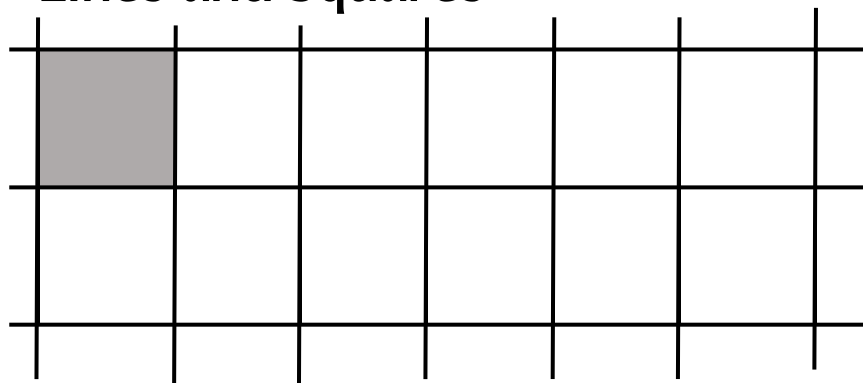
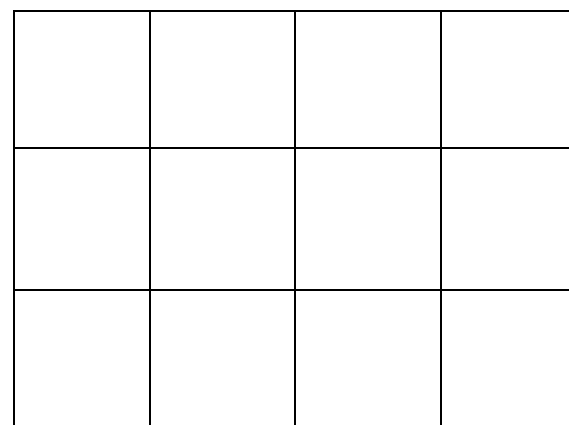


Lines and Squares



Above are 10 straight lines (3 horizontal lines and 7 vertical lines) and 17 small squares.



Above are 9 lines (4 horizontal lines and 5 vertical lines) and 20 small squares.

Challenge

Find the smallest number of lines needed to make exactly 100 squares.

The shape is to be either a square or a rectangle. Compound shapes not allowed.

Hint: This is a problem to challenge your 'trial and error' skills. Keeping a record and organizing your attempts is a good way not to repeat tries and waste time.