

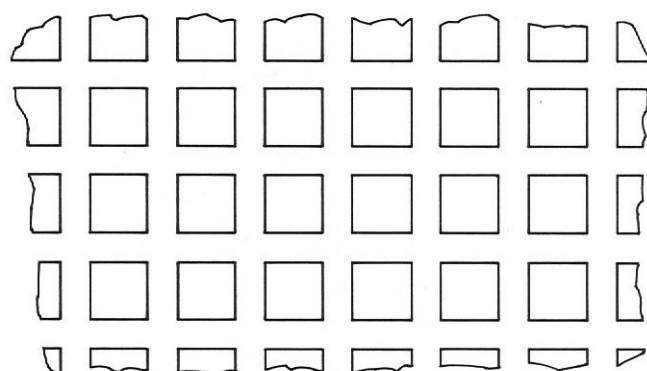
Fire hydrants



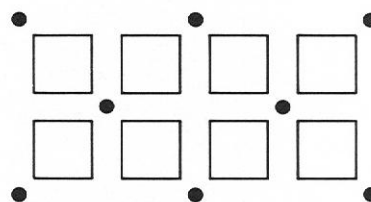
Firefighters use hydrants to connect their hoses to water mains

Imagine a city where all the streets are laid out on a rectangular grid and all the blocks are 100m square.

The fire department has hoses that are 100m long, so they don't need a hydrant on every street corner.



For a 4x2 grid, the fire department could arrange their hydrants like this, so that every part of the grid could be reached.



This arrangement uses 8 hydrants.

See if you can find an arrangement that uses fewer hydrants. Investigate the minimum number of hydrants required for this and for other grids.

PUPIL STIMULUS

PDF INTERACTIVE

Fire hydrant

Flash interactive

No. of columns

No. of rows

Set grid

Add/remove Hydrants

Test hose coverage

0

Further controls



Fire hydrants worksheet

PUPIL STIMULUS

FLASH INTERACTIVE