

High-powered Thinking

You need a classmate

Activity

Pita, Henare, and Matthew are standing at the bottom of a new 26-floor office tower.

The corner offices have two windows.

The rest of the offices have one window.

The rest of the building is the same as the front and side shown here.

“I wonder how many offices there are in the whole building,” says Henare.

They all try to work it out in their heads.

i.

2×26 is $2 \times 20 = 40$
plus $2 \times 6 = 12$...
so that's 52.
 52×5 is 250 plus 10
... that's 260.

ii.

2×5 is 10,
so that's 26×10 , which
is 260.

iii.

5×26 is ... 100
+ 30. Double 130
is 260.



1.
 - a. Discuss with a classmate what each person is doing to solve the problem.
 - b. Which strategy do you think is best? Why?
2. Use your own “in your head” strategy to work out the number of offices in these buildings. (They have the same corner office arrangement as the building above.)

a.

b.

