## Staircase Capers

## You need $\square$ a photocopy of the staircases




Mark some four- or six-block rectangles on your copy of this staircase.
Add the pairs of numbers in opposite corners of the rectangles. What do you notice (for example, in $2+7=\square$ and $3+6=\square$ )?

Mark crosses on your copy of this staircase.
Add numbers at opposite ends of the cross (for example,
$2+12=\square$ and $5+7=\square$ ). What do you notice?

Mark out little staircases on your copy of this staircase.
Make some right-hand staircases and some left-hand staircases.

Add the numbers at the corners (for example, $2+12+14=\square$ ). Add the other three numbers (for example, $6+7+13=\square$ ). What do you notice?

## Investigation

Can you find any other patterns?
Discuss your patterns with a classmate. Do they work?

