## What a View!

You need $\square$ a calculator (optional) $\quad \square$ a classmate<br>2 pieces of coloured overhead transparency (optional)



## Activity One

Sparkle the window cleaner has cleaned all the windows in a building that is 18 floors high and has 13 windows in each floor. He charges the building
 owners for the number of windows he has cleaned. (Each square in the diagram below represents 1 window.)
Sparkle uses this array to help work out how many windows he has cleaned:
The other window cleaners tell him their ways of working out how many windows


Complete these equations using two different strategies for each one. You might like to use the array that Sparkle used and some pieces of overhead transparency to check your strategies. Compare your use of strategies with a classmate's.
a. $13 \times 17=$
b. $\quad 14 \times 6=$
c. $19 \times 6=$
d. $16 \times 4=$
e. $23 \times 18=$
f. $19 \times 3=$
g. $15 \times 9=$
h. $7 \times 17=$
i. $\quad 7 \times 28=$
j. $\quad 6 \times 24=$

## Activity Two

Not all the buildings that Sparkle cleans are rectangles.
This is how two of the window cleaners work out how many windows are in this building. (Each square in the 3 diagrams on this page represents 1 window.)

I'd go $4 \times 6=24$ and $3 \times 4=12$. $24+12=36$

a. How many windows are in the Camel Towers building? Show two different ways of working this out.
b. If Sparkle charges $\$ 6.30$ per window, how much will he charge for cleaning all the windows in Camel Towers? Discuss with a classmate how you worked this out.
a. How many windows are in the Vision Complex? Show two different ways of working this out.
b. If Sparkle charges $\$ 6.30$ per window, how much will he charge for cleaning all the windows in the Vision Complex?


Camel Towers


Vision Complex

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