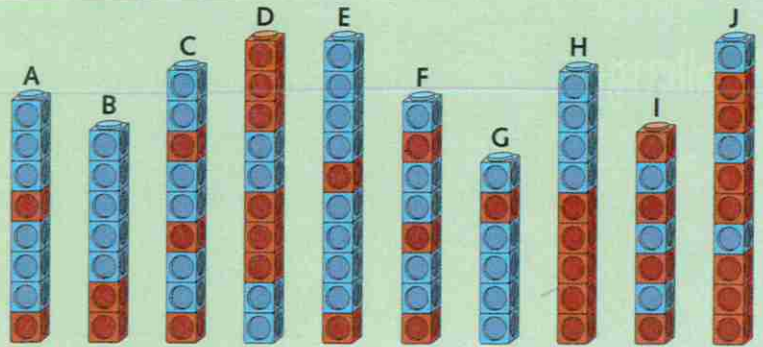




Challenge

Eve, David, Johannes, Sofia and Ms Moore have each built two towers of interlocking cubes.

Match each pupil to their two towers.



The ratio of blue to red in my two towers is 3 : 4 and 3 : 7.



The ratio of red to blue in one of my towers is 1 : 3. The ratio of blue to red in my other tower is 2 : 3.

The ratio of red to blue in one of my towers is 1 : 2. The ratio of red to blue in my other tower is 3 : 5.



The ratio of red to blue in my two towers is 2 : 5 and 1 : 5.



Ms Moore built the remaining two towers. Which two towers did she build? What is the ratio of red cubes to blue cubes in Ms Moore's two towers?

Think about ...



Ratio tells us how much we have of one amount compared to another amount.



Proportion tells us how much we have of something compared to the whole amount.

What if?

Sofia says:

Describe the proportion of blue cubes to red cubes for each of the other towers.

In one of my towers, $\frac{2}{5}$ of the cubes are blue and $\frac{3}{5}$ of the cubes are red. In my other tower, $\frac{3}{4}$ of the cubes are blue and $\frac{1}{4}$ are red.

When you've finished, turn to page 80.

