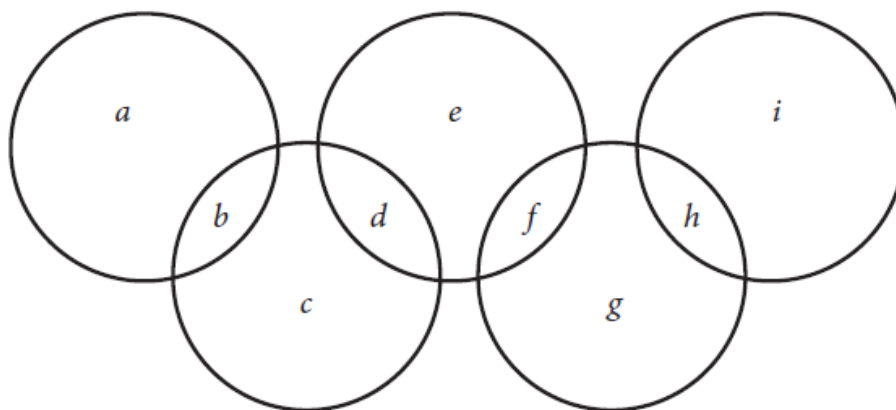


## Olympic rings

Can you fit the numbers 1 to 9 in the spaces in the Olympic rings so that the 'straight line' sums –  $a + b + c$ ,  $c + d + e$ ,  $e + f + g$  and  $g + h + i$  – are all the same?



Can you find more than one way to complete the problem? How?

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Make a **conjecture**: This problem can be done in  $n$  ways.

What do you think is the value of  $n$ ? 

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How could you prove your conjecture?

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How does this problem differ from the six-circle problem?

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