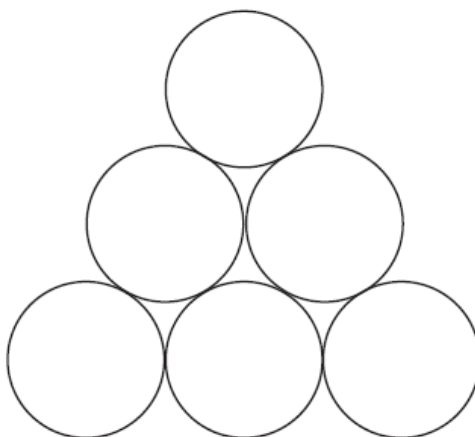


Answers and proofs

Can you place the numbers 1, 2, 3, 4, 5 and 6 in the six circles so that:

- each number is used only once
- only one number is used in each circle
- the numbers on each of the three sides of the triangle all add up to the same total?



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

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

What do you think is the value of n ? _____

How could you prove your conjecture?
