

Proposed by Bernardo Ábrego and Silvia Fernández. October 25-November 1



Additional questions for possible projects.

- 1. Consider the domino set where each of the two ends can have an integer number between 0 and n. This set would have (n + 1)(n + 2)/2 pieces (why?). The regular domino set is obtained with n = 6. Show that it is possible to form a circular chain, following the rule above, that uses all of the dominoes exactly once.
- 2. How many different circular chains are there? (we can consider two chains the same if one can rotate one to obtain the other)