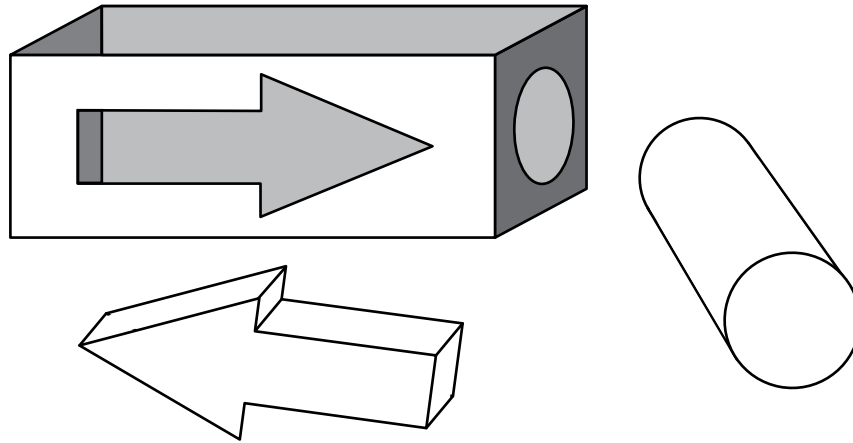


Appendix 5.1

The Pentacube Box



Problem

Create a game that consists of inserting each of the 12 flat pentacubes into a cardboard box by openings cut on 5 of its faces.

Criteria

- Each game must have only five openings: one opening on each of the four sides of the box and one on the top, but none in the bottom of the box.
- All openings must have an area of 6 square units (one square unit is the area of one face of a connecting cube).
- The 12 flat pentacubes must be inserted into one of the openings.