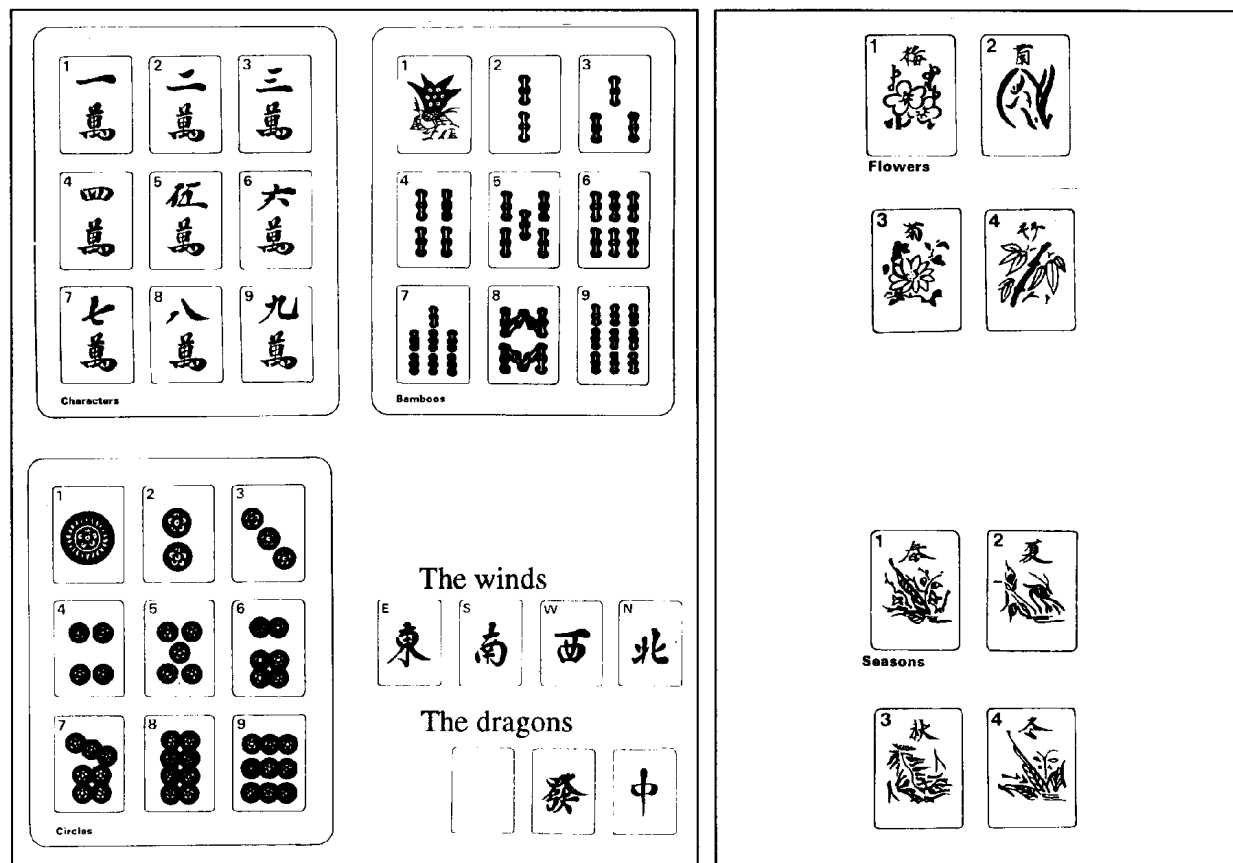


Mah Jong

The game-Hong Kong MAH-JONG is similar to cards (the cards are called 'tiles') except there are only three (3) suits - Characters, Bamboos and Circles. Each suit contains the numbers one to nine. There are also special tiles: three types of dragons and four types of winds. There are four of each tile. There are also four flower tiles and four seasons, making a total of 144 tiles. The tiles are illustrated below. Tiles are stacked into four walls at the start of the game.



There are four of each of these tiles.

There are one of each of these tiles.

- (a) Determine the probability of:
- 'plucking the moon from the sea' (ie. picking the one of circles as the last tile on the wall),
 - Drawing any bamboo tile.
- (b) If two tiles are drawn from the wall (without replacement) determine the probability of drawing:
- two green dragons,
 - a west wind followed by an east wind.
- (c) What is the probability of getting the four flowers and four seasons when choosing the first 8 tiles of your hand?
(there are 13 tiles in a hand)

[See module 4A for information on probability]