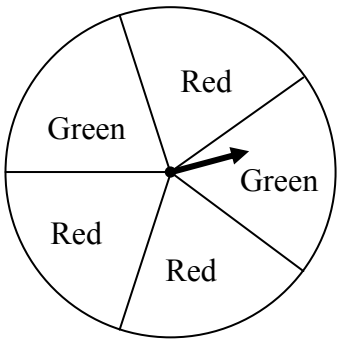
Question 2 **(25 marks)**

An unbiased circular spinner has a movable pointer and five equal sectors, two coloured green and three coloured red.



(a) **(i)** Find the probability that the pointer stops on green for one spin of the spinner.

(ii) List all the possible outcomes of 3 successive spins of the spinner.

(b) A game consists of spinning the spinner 3 times. Each time the spinner stops on green the player wins €1; otherwise the player wins nothing. For example, if the outcome of one game is "green, red, green" the player wins €2.

Complete the following table:

Player wins	€0	€1	€2	€3
Required outcomes				

(c) Is one spin of the spinner above an example of a Bernoulli trial?

Answer: _____

Explain what a Bernoulli trial is.