**Second Continuous Evaluation (December 2019), Statistics-I, group ARA**

We have the base (<https://www.uv.es/mperea/d19th.sav>) that contains data of 50 people, with the RT in a letter identification task, the RT in an object identification task, age, verbal IQ, socioeconomic status, level of Valencian, whether they have (or not) an iPhone, and whether they have (or not) a vehicle.

1. We want to know whether there is a relationship between the RT in the letter identification task and the RT in the object identification task. The questions are: 1) is the relationship approximately linear? (justify your answer); and 2) what is the value of the appropriate index of correlation and what does it mean?

(Copy/paste from SPSS when necessary)

2. We want to predict the RT in the letter identification task as a function of the RT in the object identification task, age, and verbal\_IQ. The questions are: 1) what proportion of variance in letter identification task can be explained by the regression equation? and 2) which is the worst predictor and why? (Copy/paste from SPSS)

3. We have the following game, for which we have to pay 10€ to play each time. You throw a dice. If you get a 6, then you receive 60€. Otherwise, you don’t receive any money. Is it worth playing in the long run? Justify your answer.

4. Andrew claims that his IQ is higher than 75% of people. What is Andrews’ IQ? Assume that IQ follows approximately a normal distribution with mean 100 and standard deviation 15.