Human beta-endorphin (HBE) is a hormone secreted by the pituitary gland under conditions of stress. HBE levels (pg/ml) were measured on three groups of men: 15 who had just entered a fitness program, 11 who were regular joggers, and 10 sedentary people. Also, SS(between) = 240.69 and SS(within) = 6,887.6.

(a) State null and alternative hypotheses for a test of whether or not the HBE levels are the same in each group of men.

(b) Construct an ANOVA table and compute the F test statistic.

(c) The $p$-value of the test is 0.57. Interpret the result in the context of the problem.