

Exercise 1.1.

Peter Perez builds electrical cable of high quality using two types of metallic alloys, A and B. Alloy A contains 80% of copper and 20% of aluminum. Alloy B contains 68% of copper and 32% of aluminum. The alloy A market price is 80 Euros per ton and the alloy B market price 60 Euros per ton. Which are the quantities of alloys A and B respectively that Peter has to use to produce a ton of cable which contains at least 20% of aluminum and whose production cost is the cheapest possible?