Equivalence Coefficient Costing

$MCOP := 260400$

$x_1 := 280000$

$x_2 := 240000$

$x_3 := 180000$

$x_4 := 120000$

$ec_1 := 1$

$ec_2 := 0.8$

$ec_3 := 1.4$

$ec_4 := 1.2$

$$mc_1 := \frac{MCOP}{ec_1 \cdot x_1 + ec_2 \cdot x_2 + ec_3 \cdot x_3 + ec_4 \cdot x_4}$$

$mc_1 = 0.3$

$mc_2 := ec_2 \cdot mc_1$

$mc_2 = 0.24$

$mc_3 := ec_3 \cdot mc_1$

$mc_3 = 0.42$

$mc_4 := ec_4 \cdot mc_1$

$mc_4 = 0.36$

Legend

Subscripts 1, 2, 3, 4 for product types
MCOP = Manufacturing cost of goods produced
x   = Quantity of goods produced
ec   = Equivalence coefficient
mc   = Manufacturing cost per unit