EX 028 Maximize with a Cobb Douglas Production Function

Suppose a Cobb-Douglas Production Function is given by following

$$Y = L\,K$$

where L is units of labor, K is units of capital, Y is total units that can be produced with this labor and capital combination. Suppose to each unit of labor costs $20 and each unit of capital costs $30, Further suppose a total of $1500 in available to be invested in labor and capital. How many units of labor and capital should be purchased to miximize production in budgetary constraint.