Old MacDonald Had A Farm.

A farmer is planting wheat and rye.
He has a 10 acre farm and has to plant at least 7 acres.
He has only $1200 to spend and each acre of wheat cost $200 to plant and each acre of rye cost $100 to plant.
The farmer has to get the planting done in 12 hours and it takes an hour to plant an acre of wheat and 2 hours to plant an acre of rye.
The profit is $500 per acre of wheat and $300 per acre of rye.
How many acres of each should be planted to maximize profit?

Organize information in a table:

Objective Function

	x	y	

Answer: