Answer on Question #52708, Economics, Microeconomics

TFC = $1000, AVC = $2000

L	Q	APP(L)	MPP(L)	TVC	AVC	TC	ATC	AFC	MC
1	8	8	8	2000	250,00	3000	375,00	125,00	375,00
2	17	8,5	9	4000	235,29	5000	294,12	58,82	222,22
3	24	8	7	6000	250,00	7000	291,67	41,67	285,71
4	30	7,5	6	8000	266,67	9000	300,00	33,33	333,33
5	35	7	5	10000	285,71	11000	314,29	28,57	400,00
6	39	6,5	4	12000	307,69	13000	333,33	25,64	500,00
7	42	6	3	14000	333,33	15000	357,14	23,81	666,67
8	44	5,5	2	16000	363,64	17000	386,36	22,73	1000,00
9	45	5	1	18000	400,00	19000	422,22	22,22	2000,00
10	44	4,4	-1	20000	454,55	21000	477,27	22,73	-2000,00
11	41	3,73	-3	22000	536,59	23000	560,98	24,39	-666,67

APP(L) = Q/L, MPP(L) = $\Delta Q/\Delta L$, AVC = TVC/Q, TC = TVC + TFC, ATC = TC/Q, AFC = TFC/Q, MC = $\Delta TC/\Delta Q$

a) AVC = 400 when output equals 45 birds.
b) MC = 500 when ouput equals 39 carved eagles.
c) Minimum average total cost occurs when 3 units of labor are employed.
d) When 8 units of labor are employed marginal cost is equal to $1000.
e) Average variable costs are equal to $364 at 8 units of labor.