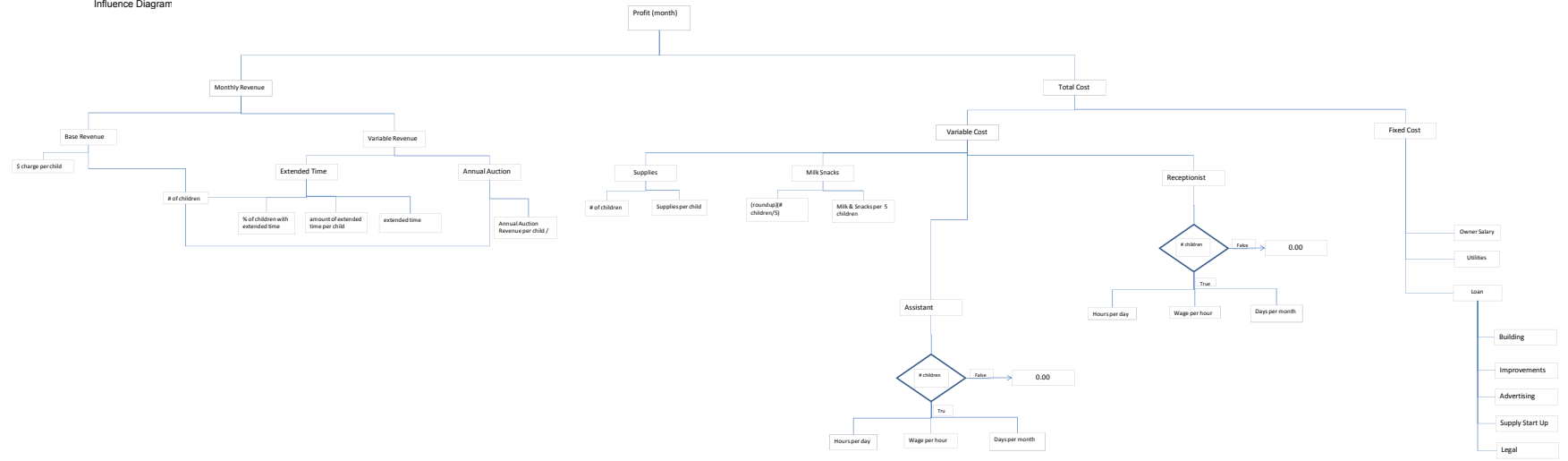
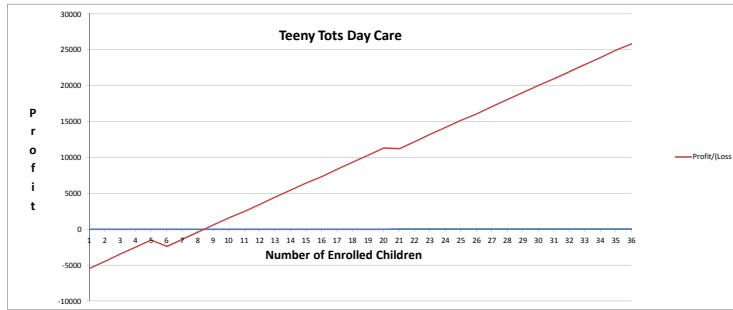


Teeny Tots Day Care
Influence Diagram



Revenue / Cost / Profit XYZ Day Care

Revenue Data	Revenue					Variable Cost					Fixed Cost			Profit				
	Number of Children	Monthly Base Rate Revenue	Monthly Variable Revenue	Annual Auction Variable Revenue	Total Monthly Revenue	Children Supplies	Milk/Snacks	Teachers Assistant	Receptionist	Total Variable Cost	Utilities	Owner Salary	Loan	Total Fixed Cost	Total Monthly Cost	Profit/Loss		
Monthly Base Rate per Child	850.00	145.83	10.00	155.83	1005.63	12.00	100.00	0.00	0.00	112.00	150.00	4,583.33	1,601.05	6,334.39	6,446.39	\$ (4,440.56)		
% Children billed 1 additional hour	58.33%	291.66	20.00	311.66	2011.66	24.00	100.00	0.00	0.00	124.00	150.00	4,583.33	1,601.05	6,334.39	6,458.39	\$ (4,448.74)		
Hourly Rate	10.00	437.48	30.00	467.48	3017.48	36.00	100.00	0.00	0.00	136.00	150.00	4,583.33	1,601.05	6,334.39	6,470.39	\$ (2,452.91)		
Days of operation month	25	3400.00	583.30	40.00	623.30	4023.30	48.00	100.00	0.00	0.00	148.00	150.00	4,583.33	1,601.05	6,334.39	6,482.39	\$ (2,459.09)	
Yearly Auction Revenue per Child Avg. month	10.00	4250.00	729.13	50.00	778.13	5029.13	60.00	100.00	0.00	160.00	150.00	4,583.33	1,601.05	6,334.39	6,494.39	\$ (1,465.26)		
Childrens Supplies per child month	12	8900.00	1169.69	80.00	1246.69	8946.69	96.00	200.00	1,800.00	2,096.00	150.00	4,583.33	1,601.05	6,334.39	8,430.39	\$ (383.79)		
Childrens Milk and Snacks (\$100 per 1-5 children)	100.00	9750.00	1020.78	70.00	1090.78	7040.78	84.00	200.00	1,800.00	2,084.00	150.00	4,583.33	1,601.05	6,334.39	8,418.39	\$ (1,377.61)		
Milk & Snacks Computed in units of 5 children	5	1890.00	1169.69	80.00	1246.69	8946.69	96.00	200.00	1,800.00	2,096.00	150.00	4,583.33	1,601.05	6,334.39	8,430.39	\$ (383.79)		
Childrens Salaries	12	10200.00	1749.90	120.00	1869.90	12089.90	144.00	300.00	1,800.00	2,244.00	150.00	4,583.33	1,601.05	6,334.39	8,578.39	\$ (3,491.51)		
Owner Salary Annual (Children less than 15)	55000.00	11050.00	1886.75	130.00	2026.75	13075.75	156.00	300.00	1,800.00	0.00	2,256.00	150.00	4,583.33	1,601.05	6,334.39	8,590.39	\$ (4,485.34)	
Owner Monthly Salary (Children less than 15)	4583.33	11900.00	294.155	140.00	2181.55	14081.55	168.00	300.00	1,800.00	0.00	2,256.00	150.00	4,583.33	1,601.05	6,334.39	8,602.39	\$ (5,475.16)	
Owner Monthly Salary (Children > 15)	4583.33	12750.00	2187.38	150.00	2337.38	15087.38	180.00	300.00	1,800.00	0.00	2,280.00	150.00	4,583.33	1,601.05	6,334.39	8,614.39	\$ (6,472.29)	
Teacher's Assistant (# children > 5)	8	13800.00	2333.20	160.00	2493.20	16093.20	192.00	400.00	1,800.00	0.00	2,392.00	150.00	4,583.33	1,601.05	6,334.39	8,726.39	\$ (7,366.81)	
Hours per Day	8	14450.00	2479.03	170.00	2649.03	17099.03	204.00	400.00	1,800.00	0.00	2,494.00	150.00	4,583.33	1,601.05	6,334.39	8,738.39	\$ (8,360.64)	
Rate per hour	25	15300.00	2624.85	180.00	2804.85	18104.85	216.00	400.00	1,800.00	0.00	2,416.00	150.00	4,583.33	1,601.05	6,334.39	8,750.39	\$ (9,354.46)	
Days per month	25	16150.00	2770.68	190.00	2960.68	19110.68	228.00	400.00	1,800.00	0.00	2,428.00	150.00	4,583.33	1,601.05	6,334.39	8,762.39	\$ (10,346.29)	
Receptionist (# children > 20)	4	17000.00	2916.50	200.00	3116.50	20116.50	240.00	400.00	1,800.00	0.00	2,440.00	150.00	4,583.33	1,601.05	6,334.39	8,774.39	\$ (11,342.11)	
Hours per Day	4	17850.00	3062.33	210.00	3272.33	21122.33	252.00	500.00	1,800.00	1,552.00	150.00	4,583.33	1,601.05	6,334.39	9,886.39	\$ (12,235.94)		
Rate per hour	25	18700.00	3208.15	220.00	3428.15	22128.15	264.00	500.00	1,800.00	1,000.00	1,568.00	150.00	4,583.33	1,601.05	6,334.39	9,898.39	\$ (13,229.76)	
Days per month	25	19550.00	3353.98	230.00	3563.98	23133.98	276.00	500.00	1,800.00	1,000.00	1,568.00	150.00	4,583.33	1,601.05	6,334.39	9,910.39	\$ (13,223.59)	
Improvements	14000.00	20400.00	3499.80	240.00	3739.80	24139.80	288.00	500.00	1,800.00	1,000.00	1,568.00	150.00	4,583.33	1,601.05	6,334.39	9,922.39	\$ (14,217.41)	
Building	20000.00	21250.00	3645.63	250.00	3895.63	25145.63	300.00	500.00	1,800.00	1,000.00	1,600.00	150.00	4,583.33	1,601.05	6,334.39	9,934.39	\$ (15,211.24)	
Advertising	12000.00	22100.00	3791.45	260.00	4051.45	26151.45	312.00	600.00	1,800.00	1,000.00	1,712.00	150.00	4,583.33	1,601.05	6,334.39	10,046.39	\$ (16,105.06)	
Supplier start up	10000.00	22950.00	3937.28	270.00	4207.28	27157.28	324.00	600.00	1,800.00	1,000.00	1,724.00	150.00	4,583.33	1,601.05	6,334.39	10,058.39	\$ (17,098.89)	
Legal	4500.00	23800.00	4083.10	280.00	4363.10	28163.10	336.00	600.00	1,800.00	1,000.00	1,736.00	150.00	4,583.33	1,601.05	6,334.39	10,070.39	\$ (18,092.71)	
Total Funding required	240500.00	24650.00	4228.93	290.00	4518.93	29168.93	348.00	600.00	1,800.00	1,000.00	1,748.00	150.00	4,583.33	1,601.05	6,334.39	10,082.39	\$ (19,086.54)	
10% from Savings	24050.00	25500.00	4374.75	300.00	4674.75	30174.75	360.00	600.00	1,800.00	1,000.00	1,760.00	150.00	4,583.33	1,601.05	6,334.39	10,094.39	\$ (20,080.36)	
90% loan proceeds	216450.00	31	26300.00	4520.58	310.00	4830.58	31180.58	372.00	700.00	1,800.00	1,000.00	1,872.00	150.00	4,583.33	1,601.05	6,334.39	10,206.39	\$ (20,974.19)
Loan APR	4%	32	27200.00	4666.40	320.00	4986.40	32186.40	384.00	700.00	1,800.00	1,000.00	1,884.00	150.00	4,583.33	1,601.05	6,334.39	10,218.39	\$ (21,968.01)
Loan Period (in months)	180	33	28050.00	4812.23	330.00	5142.23	33192.23	396.00	700.00	1,800.00	1,000.00	1,896.00	150.00	4,583.33	1,601.05	6,334.39	10,230.39	\$ (22,961.84)
Loan monthly payment	1,601.05	34	28900.00	4958.05	340.00	5298.05	34198.05	408.00	700.00	1,800.00	1,000.00	1,908.00	150.00	4,583.33	1,601.05	6,334.39	10,242.39	\$ (23,955.66)
		35	29750.00	5103.88	350.00	5453.88	35203.88	420.00	700.00	1,800.00	1,000.00	1,920.00	150.00	4,583.33	1,601.05	6,334.39	10,254.39	\$ (24,949.49)
		36	30600.00	5249.70	360.00	5609.70	36209.70	432.00	800.00	1,800.00	1,000.00	1,932.00	150.00	4,583.33	1,601.05	6,334.39	10,266.39	\$ (25,943.31)



Demand & Profit Analysis - XYZ Day Care
Using Demand Equation 60-0.04p

	Base Monthly Rate	# of Children	Base Monthly Revenue	Variable Monthly Revenue	Total Monthly Revenue	Monthly Variable Cost	Monthly Fixed Cost	Total Monthly Cost	Profit	
	500	36	18000	5609.70	23609.70	4,032.00	6,334.39	10,366.39	13243.31	
	525	36	18900	5609.70	24509.70	4,032.00	6,334.39	10,366.39	14143.31	
	550	36	19800	5609.70	25409.70	4,032.00	6,334.39	10,366.39	15043.31	
	575	36	20700	5609.70	26309.70	4,032.00	6,334.39	10,366.39	15943.31	
	600	36	21600	5609.70	27209.70	4,032.00	6,334.39	10,366.39	16843.31	
	625	35	21875	5453.88	27328.88	3,920.00	6,334.39	10,254.39	17074.49	
Initial price (p)	500	650	34	22100	5298.05	27398.05	3,908.00	6,334.39	10,242.39	17155.66
		675	33	22275	5142.23	27417.23	3,896.00	6,334.39	10,230.39	17186.84 Peak profit
Demand Equation Constant	60	700	32	22400	4986.40	27386.40	3,884.00	6,334.39	10,218.39	17168.01
		725	31	22475	4830.58	27305.58	3,872.00	6,334.39	10,206.39	17099.19
Demand Equation Coefficient	-0.04	750	30	22500	4674.75	27174.75	3,760.00	6,334.39	10,094.39	17080.36
		775	29	22475	4518.93	26993.93	3,748.00	6,334.39	10,082.39	16911.54
		800	28	22400	4363.10	26763.10	3,736.00	6,334.39	10,070.39	16692.71
		825	27	22275	4207.28	26482.28	3,724.00	6,334.39	10,058.39	16423.89
		850	26	22100	4051.45	26151.45	3,712.00	6,334.39	10,046.39	16105.06
		875	25	21875	3895.63	25770.63	3,600.00	6,334.39	9,934.39	15836.24
		900	24	21600	3739.80	25339.80	3,588.00	6,334.39	9,922.39	15417.41
		925	23	21275	3583.98	24858.98	3,576.00	6,334.39	9,910.39	14948.59
		950	22	20900	3428.15	24328.15	3,564.00	6,334.39	9,898.39	14429.76
		975	21	20475	3272.33	23747.33	3,552.00	6,334.39	9,886.39	13860.94
		1000	20	20000	3116.50	23116.50	2,440.00	6,334.39	8,774.39	14342.11
		1025	19	19475	2960.68	22435.68	2,428.00	6,334.39	8,762.39	13673.29
		1050	18	18900	2804.85	21704.85	2,416.00	6,334.39	8,750.39	12954.46
		1075	17	18275	2649.03	20924.03	2,404.00	6,334.39	8,738.39	12185.64
		1100	16	17600	2493.20	20093.20	2,392.00	6,334.39	8,726.39	11366.81
		1125	15	16875	2337.38	19212.38	2,280.00	6,334.39	8,614.39	10597.99
		1150	14	16100	2181.55	18281.55	2,268.00	6,334.39	8,602.39	9679.16
		1175	13	15275	2025.73	17300.73	2,256.00	6,334.39	8,590.39	8710.34
		1200	12	14400	1869.90	16269.90	2,244.00	6,334.39	8,578.39	7691.51

