

Mathematical Parable on Competition and Public School Choice
 October, 2013

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Choice Students		100	100	100	100	100	90
		choice town transports to School A	bus to School A eliminated - students disperse	competition with transportation	increased competition with transportation	competition with expanded programs	decline in number of students
Local Transportation		\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -
School A	Students	80	60	50	40	35	33
	Tuition Rate	\$ 10,000	\$ 11,000	\$ 11,500	\$ 12,000	\$ 12,500	\$ 12,750
	Tuition Total	\$ 800,000	\$ 660,000	\$ 575,000	\$ 480,000	\$ 437,500	\$ 420,750
School B	Students	5	10	15	20	25	23
	Tuition Rate	\$ 11,500	\$ 11,500	\$ 11,500	\$ 11,500	\$ 12,500	\$ 12,750
	Tuition Total	\$ 57,500	\$ 115,000	\$ 172,500	\$ 230,000	\$ 312,500	\$ 293,250
	Transportation	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
School C	Students	5	10	15	15	15	13
	Tuition Rate	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,250
	Tuition Total	\$ 60,000	\$ 120,000	\$ 180,000	\$ 180,000	\$ 180,000	\$ 159,250
	Transportation	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
School D	Students	5	10	10	15	10	8
	Tuition Rate	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,250
	Tuition Total	\$ 65,000	\$ 130,000	\$ 130,000	\$ 195,000	\$ 130,000	\$ 106,000
School E	Students	5	10	10	15	20	18
	Tuition Rate	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ 14,000	\$ 14,250
	Tuition Total	\$ 65,000	\$ 130,000	\$ 130,000	\$ 195,000	\$ 280,000	\$ 256,500
	School D & E SU Transportation	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000
Total Cost to Taxpayers		\$ 1,072,500	\$ 1,155,000	\$ 1,267,500	\$ 1,400,000	\$ 1,460,000	\$ 1,355,750
Increase/Decrease			8%	10%	10%	4%	-7%
Cost per Pupil		\$ 10,725	\$ 11,550	\$ 12,675	\$ 14,000	\$ 14,600	\$ 15,064
Cumulative Increase per Pupil			\$ 825	\$ 1,950	\$ 3,275	\$ 3,875	\$ 4,339