Energy Savings Calculations Worksheet

Name: _____

Appliance	Standard Wattage		Energy Efficient Wattage		Wattage Difference		# of Appliances		Monthly Usage		Difference in Watt Hours per Month		Difference in Standard and Efficient Appliance Costs
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
		-		=		x		x		=			
Total Watt Hours Per Month Difference													Total Difference in Initial Appliance Costs -->

Monthly Energy Savings

Difference in Wh/Month	÷	1000	=	Difference in kWh/Month
	÷		=	

Money Saved Per Month

Difference in kWh/Month	x	$.10/kWh (average price)	=	Total Savings per Month
	x		=	

x 12 Months

Savings After Year

Year #	[Savings per Year] x [Year #]
1	
2	
3	
4	
5	

Savings per Year

=

How many years does it take for the savings to negate the initial costs of high efficiency appliances? _____

Energy Consumption and Price of Appliances

Appliance Type	Standard Appliance Wattage (W)	High-Efficiancy Appliance Wattage (W)	Average Hours Used per Month (h)	Standard Appliance Price ($)	High-Efficiency Appliance Price ($)
Dishwasher	1350	1150	8-40	300	Dish
Refrigerator	500	425	730	400	600
Light Bulb (avg. home 60-70)	60	15	50	1.50	2.50
Washer	500	425	7-40	300	400
Dryer	500	400	6-28	350	450
Television	80	70	100-350	250	280
Central Air Conditioning Unit	3500	2975	550	850	1050
Swimming Pool Motor	1500	1275	730	200	300
Ceiling Fan	60	50	100-200	50	75
Hot Water Heater	3800	3230	115	350	400
Oven and Stovetop	12500	10625	10-50	400	550
Microwave	1000	800	5-30	60	80