KEEP - Appliance Survey

Wisconsin's K-12 Energy Education Program (KEEP)
College of Natural Resources
University of Wisconsin-Stevens Point

Name _____

Directions:

1. Choose three appliances regularly used in your home and either find the wattage directly on them, or use this online resource.
2. Answer the questions in the table to calculate the amount of energy this appliance uses in a year and how much it costs to run it.
3. Two examples are included in the table for reference.

Row #	Item Name				Ex: Kitchen Light	Ex: Television
1	# Watts when on				10	60
2	# Hours on per day				9	3
3	# Hours on per month (Row 2 * 30)				270	90
4	Total watt-hours per month when on (Row 3 * Row 1)				2700	5400
5	Does it have standby power?				No	Yes
6	# Watts standby power				-	0.3
7	# Hours per day on standby (24 – Row 2)				-	21
8	# Hours on per month on standby (Row 7 * 30)				-	630
9	Total watt-hours per month on standby (Row 6 * Row 8)				-	189
10	Total watt-hours per month (Row 4 + Row 9)				2700	5589
11	Total kilowatt-hours per month (Row 10 ÷ 1000)				2.7	5.589
12	Total kilowatt-hours per year (Row 11 * 12)				32.4	67.068
13	Average cost of electricity in WI	$0.17/kWh	$0.17/kWh	$0.17/kWh	$0.17/kWh	$0.17/kWh
14	Cost of electricity for appliance/year (Row 12 * $0.17)				$5.51/year	$11.40/year
15	What is one way you could reduce the amount of electricity this appliance uses?				Turn off the lights when not in room	Change TV settings to energy saver mode