
NAME:

1. Review Classwork #5. Study the last slide – we did not have time to cover it!
2. Mrs. Clean bought a cordless vacuum cleaner which uses a rechargeable Lithium Ion Battery. The battery came with a 1-year warranty (i.e. the battery is supposed to work well for at least one full year). Being a scientist in training☺, Mrs. Clean keeps a record of the vacuum performance (runtime on a full charge) along with a record of battery charging time.
 - (A) Make two graphs using enclosed data (use *graph paper* if possible). What **type** of graph is the most appropriate in this case? Why?
 - (B) Observe trends and write them down under each graph.
 - (C) Imagine yourself talking to Mrs. Clean on December, 1. Can you give her a useful practical advice ☺ ?

Date	Vacuum runtime on a fully charged battery, minutes	Battery charging time, hours (time after which the charger automatically turns off when the battery is full)	Mrs. Clean comments
January 1	25	2.5	first time use
February 1	25	2.5	
March 2	25	2.5	like a clock!
April 1	24	2.5	
May 3	24	2.5	
June 5	23	2.5	wonderful!
July 7	22	2.5	
August 10	21	2	
September 15	20	2	seems to last less
October 2	19	2	
October 16	18	2	and even less...
November 1	14	1.5	Oh, it does not seem to charge well anymore!
November 13	9	1	is battery dead??
November 27	6	1	this is bad!!!