

2016 REU task: Thinking about data

You have received 75 medicine capsules (picture of capsules show at right) collected in Leogane by a collaborator. As a first step in evaluating these samples, you open up each capsule, tip out the powder, and weigh it; the sample numbers and weights are recorded in a list below.



Analyze the information about the pills any way you like. Explain what you did and what you learned. Recommend an experiment that could be done next to test your conclusions.

The whole answer should be under 200 words.

Sample	Mass (g)	Sample	Mass (g)	Sample	Mass (g)
15-001	0.2192	15-026	0.24725	15-051	0.3955
15-002	0.2526	15-027	0.24525	15-052	0.2118
15-003	0.2360	15-028	0.3675	15-053	0.2925
15-004	0.3925	15-029	0.2525	15-054	0.3759
15-005	0.2825	15-030	0.4183	15-055	0.3429
15-006	0.2407	15-031	0.2262	15-056	0.2021
15-007	0.2198	15-032	0.3362	15-057	0.2553
15-008	0.2725	15-033	0.2192	15-058	0.2435
15-009	0.2242	15-034	0.3725	15-059	0.4240
15-010	0.2295	15-035	0.2128	15-060	0.2875
15-011	0.3600	15-036	0.2654	15-061	0.3960
15-012	0.2495	15-037	0.2280	15-062	0.3523
15-013	0.2778	15-038	0.2487	15-063	0.2309
15-014	0.2454	15-039	0.4225	15-064	0.4369
15-015	0.2248	15-040	0.2337	15-065	0.2072
15-016	0.2228	15-041	0.4062	15-066	0.1972
15-017	0.2602	15-042	0.2875	15-067	0.3825
15-018	0.3875	15-043	0.2333	15-068	0.2825
15-019	0.2466	15-044	0.3825	15-069	0.2651
15-020	0.4452	15-045	0.2095	15-070	0.3553
15-021	0.3861	15-046	0.2559	15-071	0.2338
15-022	0.3325	15-047	0.2432	15-072	0.4253
15-023	0.2315	15-048	0.4110	15-073	0.4175
15-024	0.4132	15-049	0.2375	15-074	0.2400
15-025	0.2035	15-050	0.2625	15-075	0.2733