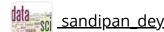


<u>Help</u>





## Week 9: Regression and Simulation

Course > Models

> Week 9 Graded Assignment > Graded Assignment 1 - Pill Int.

## Graded Assignment 1 - Pill Int.

## Part 1

2/2 points (graded)

In its latest press release, Pill International announced that they are working on a new drug that would stunt the deterioration of brain cells in Alzheimer's patients. If successful, the drug could prolong the life of patients and allow them to retain their basic mobility.

The R&D team is currently testing the drug, which comes in the form of a digestible tablet, for its ability to be dissolved and absorbed in the bloodstream. Based on their latest experiments, they have learned that there is a relationship between the amount of time that the tablet's powder spends in the tray dryer and the amount of time it takes to get dissolved (Y). As a member of this research team, you have been asked to establish the relationship between the two variables and to predict potential dissolution times based on the time spent in the dryer.

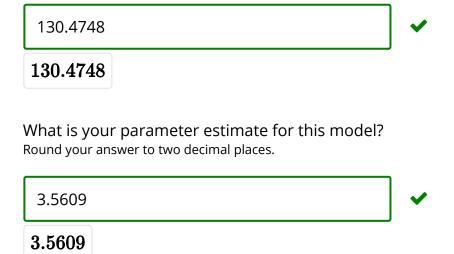
Time spent in dryer	Dissolution time (seconds)
(seconds)	275.3
42	253.46
52	223.25
29	
64	340.91
24	191.81
	366.63
58	214.7
32	435.15
70	291.28
54	
50	310.69
50	421.56

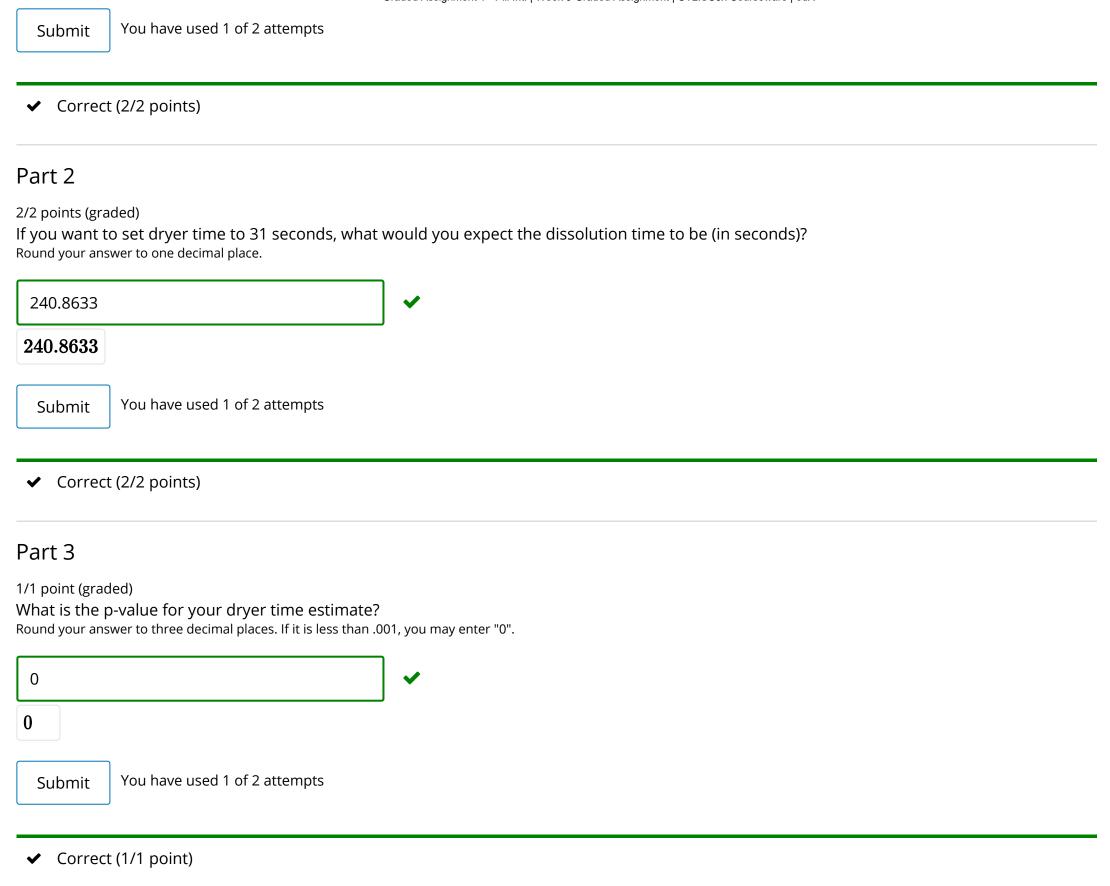
37	165.5
21	328.77
53	429.18
67	316.87
58	403.08
64	117.1
44	233.84
37	342.64
63	433.92
49	321.72
64	195.04
33	243.4
47	182.84
25	230.61
60	347.31
43	237.99
23	288.85
57	351.64
60	276.17
54	148.8
27	367.24
64	350.61
46	209.37
30	325.7
31	215.86

Graded Assignment 1 - Pill Int.   Week 9 Graded Assignment   CTL.SC0x Courseware   edX		
30	260.88	
64	298.49	
51	273.08	
30	427.13	
50	192.5	
44	181.58	
34	234.04	
43	325.51	
43	284.54	
51	354.33	
46	454.82	
63	302.01	
32	343.23	
36	289.66	
22		

Regress the time spent in the dryer against the dissolution time.

What is your intercept estimate for this model? Round your answer to two decimal places.





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