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Chapter 7- Step by Step

Means and Standard Deviation of Pain Scores for Three Dosages Levels

Dosage level	Mean	Standard Deviation
High (n=3)	2.00	1.00
Moderate (n=3)	5.67	2.08
Low (n=3)	7.00	1.00

Chapter 7- Exercise

Socioeconomic Level	Mean	Standard Deviation
High SES (n=4)	14750.00	10812.80
Medium SES (n=4)	13250.00	4716.99
Low SES (n=4)	3500.00	2380.47

Chapter 8 Step by Step

	Mean	Standard Deviation
Math (n=7)	10	4.32
Reading (n=7)	30	4.32

Chapter 8 Step by Step - Z scores for Math and Reading

Math	Reading	Z-Math	Z- Reading
4	24	-1.38873	-1.38873
6	26	-0.92582	-.92582
8	28	-0.46291	-.46291
10	30	.00000	.00000
12	32	.46291	.46291
14	34	.92582	.92582
16	36	1.38873	1.38873

Chapter 8 Exercise

	Mean	Standard Deviation
Esteem (n=9)	20.66	5.59
Optimism (n=9)	14.00	3.00

Chapter 8 Exercise Z Scores for Self esteem and Optimism

Esteem	Optimism	Z- Esteem	Z- Optimism
30	17	1.66	1.00
27	19	1.13	1.66
25	15	0.77	0.33
22	14	0.23	.00
19	16	-0.29	0.66
17	10	-0.65	-1.33
16	12	-0.83	-0.66
15	11	-1.01	-1.00
15	12	-1.01	-0.66

1. **What is the z- score on Optimism for participant 3?** The z score on participant 3 on Optimism is 0.33.
2. **Which participant is exactly at the means (I.e exactly average) on Optimism? What is the z score for this participant ?** The participant that is exactly at the means on Optimism is participant 4. The z score for participant 4 is .00.
3. **How many participants have negative z scores on Self Esteem ?** Five participants have negative scores on self esteem .
4. **On Self Esteem which participant is furthest from the mean? What is his or her z score?** Participant 1 is furthest from the Self Esteem mean. The z score for participant 1 is 1.00.