Name	
Class	

In	troCLT.tns	S						
Problem	1 – Rollir	ng Two N	umber C	ubes				
List the 1	0 sample	means fo	und by yo	ur simula	tion.			
For the 50	0 sample	means, re	ecord the	mean and	l standard	l deviation	۱.	
_ X	=		s=					
Sketch th	e histogra	am of the	50 sample	e means.				
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	2 – Rollir				tion			
List the 1	0 sample	means io	una by yo	ur simula	uon.	<u> </u>	<u> </u>	
For the 50	0 sample	means, re	ecord the	mean and	l standard	l deviation	١.	
_ X	=		s=					

Sketch the histogram of the 50 sample means.

Introduction to the Central Limit Theorem

Problem 3 – Rolling Seven Number Cubes

List the 10 sample means found by your simulation.

For the 50 sample means, record the mean and standard deviation.

Sketch the histogram of the 50 sample means.

Problem 4 – Bringing It All Together

What happened to the histograms as the sample size, *n*, increased?

What happened to the standard deviations as *n* increased?

What is true about the means of the sample means?

Find $\frac{\sigma}{\sqrt{n}}$ for n = 2, 4, and 7, where $\sigma \approx 1.7$.