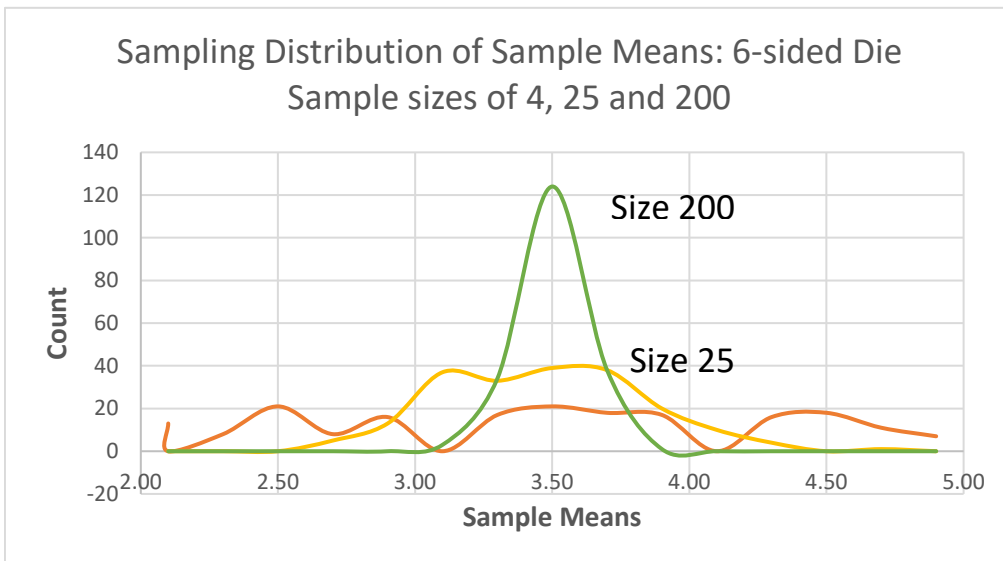


A	B	C	D	E	F	G	H	I	
③	Population: Six sides of a Single Die						These 4 numbers should be same as yours.		
	1	2	3	4	5	6	All the other numbers will vary (random).		
	3.5	Mean			3.5	Median			
	1.71	Std Dev Population (Stdev.P)			0.683	StdDev.P / Half-Range			
④	Sample Size	4	16	25	50	200			
	Mean of Means	3.57	3.47	3.49	3.48	3.50	=AVERAGE(W5:W204)		
	Median of Means	3.50	3.44	3.48	3.49	3.51	=MEDIAN(W5:W204)		
	Std Dev of Means	0.95	0.44	0.36	0.25	0.12	=STDEV.S(W5:W204)		
	SE: % of Pop SD	55%	26%	21%	15%	7%	=H10/\$B5		
	1/Sqrt(n)	50%	25%	20%	14%	7%	=1/SQRT(H7)		
⑤	Rolling a Single Six-Sided Die						H18 =COUNTIF(W\$5:W\$204, "<="&\$C18)-SUM(H\$17:H17)		
	----- Distribution of Averages by Sample size -----								
	Midpoint	Max	4	16	25	50	200		
	2.10	2.00	13	0	0	0	0	=COUNTIF(W\$5:W\$204, "<="&\$C17)	
	2.10	2.20	0	0	0	0	0	H18 formula: See above H17.	
	2.30	2.40	8	1	0	0	0		
	2.50	2.60	21	4	0	0	0	Do not copy H17 downward	
	2.70	2.80	8	6	5	2	0	Just copy H18 downward	
	2.90	3.00	16	23	13	3	0		
	3.10	3.20	0	29	37	23	3		
	3.30	3.40	17	31	33	51	34		
	3.50	3.60	21	23	39	55	124		
	3.70	3.80	18	29	38	48	38		
	3.90	4.00	17	36	20	15	1		
	4.10	4.20	0	12	10	3	0		
	4.30	4.40	16	3	4	0	0		
	4.50	4.60	18	3	0	0	0		
	4.70	4.80	11	0	1	0	0		
	4.90	5.00	7	0	0	0	0		
	Total # of Samples		191	200	200	200	200	=SUM(H17:H32)	



L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	z	aa	ab		
						Right-End of Range >>	AD	AP	AY	BX	HR					=RANDBETWEEN(1,6)		
							②	Row Averages							①	-----L		
							4	16	25	50	200					R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13		
S5	=AVERAGE(\$AA5:AD5)							2.50	4.19	4.04	3.82	3.50					5	6 1 2 1 5 4 4 2 3 6 5 6 6
T5	=AVERAGE(\$AA5:AP5)							4.00	3.31	3.08	3.32	3.28					6	2 5 5 4 3 5 2 6 1 6 2 4 2
U5	=AVERAGE(\$AA5:AY5)							3.50	3.06	3.08	3.04	3.40					7	5 6 2 1 4 4 4 3 1 1 4 1 2
V5	=AVERAGE(\$AA5:BX5)							4.75	4.00	3.88	3.72	3.37					8	5 6 2 6 3 1 3 4 5 4 3 2 5
W5	=AVERAGE(\$AA5:HR5)							3.25	3.19	3.72	3.54	3.72					9	3 4 2 4 6 1 1 2 3 1 3 5 2
							3.25	3.44	3.36	3.54	3.47					10	3 4 1 5 5 1 4 1 4 3 4 5 6	
							3.75	3.31	3.52	3.32	3.52					11	4 4 6 1 3 4 2 2 3 5 3 3 4	
To get new roll of die,							4.75	3.56	3.64	3.74	3.51					12	5 5 3 6 5 5 1 1 6 3 2 2 6	
Press F9							1.75	2.25	2.96	3.04	3.30					13	1 1 3 2 3 3 1 1 6 1 1 4 1	
)							2.75	2.75	3.16	3.36	3.39					14	1 4 4 2 1 2 5 3 5 2 2 1 3	
Most common errors:							3.50	2.94	3.16	2.96	3.26					15	3 6 4 1 2 2 6 4 1 2 6 4 3	
1 Inserting extra \$							3.75	3.31	3.48	3.52	3.58					16	5 4 2 4 4 1 1 1 6 1 6 2 5	
2 Omitting needed \$							2.00	2.81	2.88	3.50	3.56					17	1 1 3 3 2 5 3 5 3 4 1 2 3	
3 Pulling down H17							4.00	3.50	3.72	3.48	3.56					18	4 4 6 2 6 5 1 2 6 3 1 1 1	
4 Wrong formula in T5:W5							4.50	3.63	3.60	3.60	3.43					19	1 5 6 6 5 1 5 3 4 2 2 2 1	
							3.50	3.06	2.96	2.92	3.42					20	2 4 6 2 2 3 5 5 1 3 6 2 1	
							2.00	3.06	3.24	3.16	3.42					21	2 1 1 4 1 5 3 2 4 6 6 1 2	
							4.25	3.56	3.56	3.46	3.56					22	6 4 5 2 1 6 4 1 4 5 3 1 6	
							4.00	3.38	3.00	3.34	3.66					23	3 5 3 5 1 1 2 5 3 3 5 5 1	
							3.75	3.44	3.72	3.40	3.52					24	6 4 1 4 6 6 1 1 2 1 5 4 5	
							4.75	3.69	3.32	3.40	3.71					25	3 4 6 6 6 6 1 5 2 4 2 3 3	
							2.50	2.94	3.32	3.50	3.50					26	1 2 3 4 5 2 5 1 1 1 3 4 5	
							3.75	3.75	3.56	3.10	3.18					27	4 3 6 2 3 5 3 4 4 6 2 6 5	
							2.25	3.06	3.12	3.16	3.48					28	1 3 4 1 1 2 3 1 6 2 6 1 4	
							4.50	3.94	3.80	3.26	3.33					29	6 3 4 5 6 2 2 4 1 3 6 3 6	
							3.25	4.25	4.12	3.62	3.50					30	5 3 1 4 6 5 6 1 6 5 6 5 3	
							4.75	3.63	3.76	3.72	3.54					31	4 5 4 6 4 6 2 2 5 1 1 4 5	
							3.00	2.88	3.04	3.12	3.44					32	3 3 2 4 4 5 6 3 2 2 1 2 1	
							2.00	3.25	3.32	3.64	3.52					33	1 2 3 2 2 2 6 6 2 5 3 4 1	
							3.00	3.19	3.36	3.62	3.60					34	5 4 1 2 5 5 2 2 1 3 2 4 6	
							4.25	3.88	3.80	3.74	3.54					35	5 3 6 3 2 5 5 2 4 5 3 5 3	
							3.00	3.63	3.60	3.64	3.67					36	4 6 1 1 5 6 2 4 2 5 4 3 2	
							2.25	3.00	3.20	3.28	3.36					37	1 2 1 5 1 3 6 4 6 4 3 2 4	
							4.50	3.88	3.68	3.68	3.61					38	2 6 6 4 5 1 2 3 3 2 6 6 6	
							5.25	4.00	3.84	3.52	3.58					39	4 6 6 5 3 6 4 6 4 4 1 2 1	
							3.50	3.75	3.36	3.30	3.53					40	2 6 4 2 5 1 5 6 6 1 5 2 4	
							4.00	3.75	3.72	3.70	3.44					41	3 6 4 3 3 5 1 5 6 5 1 3 2	
							3.75	3.06	3.24	3.36	3.61					42	4 4 4 3 6 2 3 3 3 3 1 3 3	
							4.25	3.56	3.64	3.20	3.44					43	4 2 5 6 2 3 1 6 3 2 5 1 1	
							1.75	2.88	3.16	3.20	3.33					44	1 1 1 4 3 1 6 5 2 1 3 5 2	
							3.75	3.19	3.08	3.46	3.53					45	5 2 5 3 4 6 2 1 4 3 2 3 5	
							2.50	3.25	3.36	3.22	3.36					46	1 4 2 3 2 2 5 1 5 4 5 2 5	
							2.50	3.00	3.20	3.42	3.52					47	2 1 3 4 6 1 4 5 2 6 3 1 1	
							3.75	3.69	3.60	3.76	3.63					48	6 2 6 1 1 3 5 3 6 4 4 6 5	
							2.00	3.25	3.24	3.26	3.56					49	1 1 1 5 2 6 4 6 3 1 3 4 6	
							4.00	2.75	2.76	2.86	3.20					50	3 4 6 3 2 2 5 1 2 1 3 6 1	
							4.00	3.69	3.96	3.64	3.52					51	5 5 2 4 1 3 1 6 3 2 6 4 4	
							2.75	3.50	3.48	3.24	3.61					52	3 3 1 4 5 2 6 6 3 2 3 3 5	
							5.25	3.88	3.68	3.42	3.48					53	5 6 6 4 3 6 1 1 3 1 3 3 6	