

Question 1: (30 pts) Pacheco, Programming Assignment 4.2.

Show the pi-estimate for different `number_of_tosses`. Present your experimental results in a table. Does the pi-estimate improve when increasing number of `number_of_tosses`?

Answer: Below is the table for the PI estimates. The accuracy of PI does improve as the number of tosses increases.

Threads	Tosses	π
8	8	2.0000000000000000
8	16	2.5000000000000000
8	32	2.8750000000000000
8	64	3.0625000000000000
8	128	3.1562500000000000
8	256	3.2812500000000000
8	512	3.0937500000000000
8	1024	3.1015625000000000
8	2048	3.1406250000000000
8	4096	3.1523437500000000
8	8192	3.1523437500000000
8	16384	3.1425781250000000
8	32768	3.1538085937500000
8	65536	3.144714355468750
8	131072	3.145416259765625
8	262144	3.141723632812500
8	524288	3.143531799316406
8	1048576	3.143314361572266