A student measures the time period of 100 oscillations of a simple pendulum four times. The data set is 90 s, 91 s, 95 s and 92 s. If the minimum division in the measuring clock is 1 s, then the reported mean time should be:

A 92 ± 2 s

B 92 ± 5.0 s

C 92 ± 1.8 s

D 92 ± 3 s

Correct option is A)

Sum of all observation= 90 + 91 + 95 + 92 = 368

Average = 368/4 = 92

Sum of modulus errors=2 + 1 + 3 = 6

Average error = 6/4 = 1.5,rounded of 2.

Final answer = (92 ± 2) s