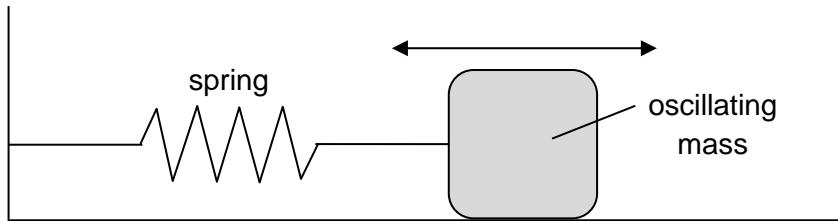


- 10** A mass-spring system is made to oscillate in simple harmonic motion on a smooth horizontal table as shown.

The mass of the block is 2.0 kg, the amplitude of oscillation is 5.0 cm and the frequency of the oscillation is 2.5 Hz.



What is the potential energy in the spring when the kinetic energy of the mass is 0.36 J?

A 0.26 J

B 0.36 J

C 0.62 J

D 6200 J