

- 14** A constant force F is applied to a stationary object on a flat horizontal surface. The object accelerates from rest and has kinetic energy E after time t .

What is the kinetic energy of the object at time $3t$?

- A** $4E$ **B** $8E$ **C** $9E$ **D** $16E$

- 15** A mass m is situated in a uniform gravitational field