

Jesse (mass 60kg) is running at 20 km/hr. Find his kinetic energy.

Solution:

Given:

m=60 kg

v=20 km/hr = $20 \cdot 1000 \text{ (m)} / 3600 \text{ (sec)} = 5.56 \text{ m/sec}$

Kinetic Energy:

$$E_c = \frac{mv^2}{2} = \frac{60 \cdot 5.56^2}{2} = 927.4 \text{ J}$$

Answer: kinetic energy. 957.4 J

<http://www.AssignmentExpert.com/>