20-P-FA-AF-007

Newtons Law of Motion / E^{qu} of Motion

Q: If an objects weighs E 'N' on earth and weighs P 'N'
    on an unknown planet. What is the mass of the object
    and the acceleration on this unknown planet?

    - use 9.81 m/s² for gravity on earth -

A: $W_E = E = mg$ $\Rightarrow$ $m = E/g$
    $g = 9.81$

    $W_p = P = ma$ $\Rightarrow$ $a = P/m = Pg/E$