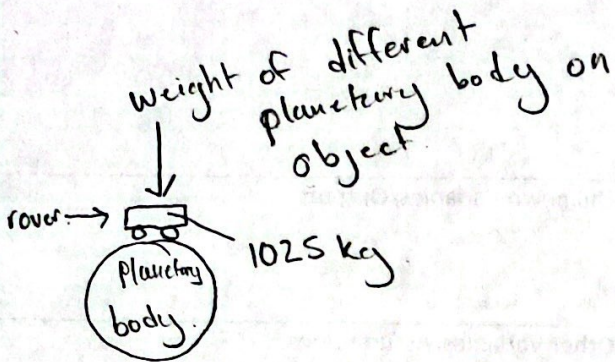


Problem Summary:

Calculate the weight of each object on each planetary body

Sketch:



Known Variables/Input:

Planetary Body Accel: $g(m/s)^2$
Mass of the object: mass Kg.

Unknown Variables/Output:

Weight of the object on different bodies.

Other Variables/Assumptions:

rounded to 3 sig figs.
ending conversion is in N

Algorithm (list of steps, flowchart, or pseudo code):

$$\text{Weight} = \text{Mass} \cdot \text{Acceleration}$$

- Enter formula to convert the mass and acceleration to weight on the first body.
- auto fill formula across the columns and rows to complete table.

Implementation Notes (notes for specific steps/blocks of algorithm):

- Hold reference row 3 in \$3 in formula.
- Hold reference column b in \$b in formula

example: $= (\$B4 \cdot C\$3)$

Test Cases:

Calculated weight of a google pixel 5a on Mercury: .677N
weight of a car on Uranus: $1.77E 04$ N
weight of rover on venus: $9.09E + 03$ N

No literal values except in Assumptions, and Test Cases!