

Answer on Question #69583-Physics-Other

If the acceleration under gravity (g) is 9.80 m/s^2 , how many g would you experience if you were fired from Mr. Verne's Moon Cannon?

Humans can stand $15g$ for a short time and have been known to take momentary accelerations of $46g$.

Solution

$$\frac{a}{g} = \frac{136750 \frac{\text{m}}{\text{s}^2}}{9.80 \frac{\text{m}}{\text{s}^2}} = 13950.$$

Thus,

$$a = 13950g.$$

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