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// File: fallMars.cpp
// Created by: Isaiah Green
// Created on: 9/7/2017

/* compute the falling distance and velocity on the moon */

#include <iostream>
using namespace std;
int main()
{
    double time,gravity,velocity,distance;

    cout << "Enter the time: ";
    cin >> time;

    //compute the velocity and distance
    gravity = 3.73;
    velocity = gravity*time;
    distance = velocity*time*(0.5);

    cout << "After " << time << " seconds, the velocity on mars is "
    << velocity << " meters per second." << endl;

    cout << "After " << time << " seconds, the falling distance on mars is "
    << distance << " meters." << endl;

    return(0);
}

```