**Physics 1**

Find the force applied on the body of mass 10Kg moving with acceleration 30m / sec square.

**Explanation:**

We are given mass of the body and the acceleration of body. The program calculates the force required to move the body with acceleration, as output, by multiplying mass and acceleration.

**INPUT:**

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**main()**

**{**

**//Question**

**//Find the force applied on the body of mass 10Kg moving with acceleration 30m per sec square.**

**int mass=10;**

**int acceleration=30;**

**int Force=mass \* acceleration;**

**cout<<"Given: \n\n";**

**cout<<"Mass="<<mass<<"Kg \n";**

**cout<<"Acceleration="<<acceleration<<" m per sec square \n\n";**

**cout<<"To Find: \n\n";**

**cout<<"Force=? \n\n";**

**cout<<"Sol: \n\n";**

**cout<<"Force=Mass \* Acceleration \n";**

**cout<<"Force="<<mass<<" \* "<<acceleration<<endl;**

**cout<<"Force="<<Force<<" N" <<endl;**

**return 0;**

**}**

**OUTPUT:**

