1. Two students are sitting 1.50 m apart. One student has a mass of 70.0 kg and the other has a mass of 52.0 kg. What is the gravitational force between them?  
   1.08 x 10^-7 N  
     
   2. Find the force of gravity between a cubic meter of water (1000kg) and the Sun. The Sun’s mass is 1.99 x 1030kg and is 1.50 x 1011 m away.  
   5.9 N
2. If two objects, each with a mass of 2.0x102 kg, produce a gravitational force between them of 3.7x10‐6 N. What is the distance between them?  
   8.49 x 10^-1 m