The strength of gravity on different places in the Solar System is given in the table below.

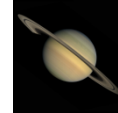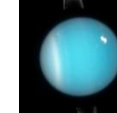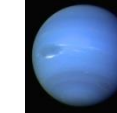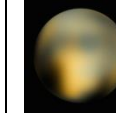| Strength of gravity (*g*) on the surface, in **Newtons per Kilogram** (N/kg)								
Mercury	**Venus**	**Moon**	**Mars**	**Jupiter**	**Saturn**	**Uranus**	**Neptune**	**Pluto**
3.8	**8.8**	**1.6**	**3.7**	**23.1**	**9.0**	**8.7**	**11.0**	**0.6**

> Use the formula **weight = mass x *g*** to answer the questions below.

1. **How much would a 10 kg suitcase weigh on the surface of…?**
   a. The Moon   c. Saturn
   b. Mars   d. Pluto

2. **How much would a 25 kg suitcase weigh on the surface of…?**
   a. Mercury   c. Jupiter
   b. Venus   d. Uranus

3. **What would be the mass of a 10 kg suitcase be on…?**
   a. Mercury   c. Neptune
   b. Venus

4. **If you were sitting, on which place in the above table would it be easiest to stand up? Why?**

5. **On which place from the table above would you have…?**
   a. The most weight   b. The most mass

6. **If you stood on Mars and lifted a 15 kg pack, you would be pulling with a force greater than…?**

7. **If a 60 kg person was standing on a platform at the surface of Saturn and they jumped, they would have to push with a force greater than…?**

8. **The Curiosity rover on Mars currently has a weight of 3,330 N. What is its mass?**

9. **A person with mass of 60 kg standing on the dwarf planet Ceres would weigh 16.2 N. What is the strength of gravity on the surface of Ceres?**

10. **Jupiter is made of gas (like Saturn, Uranus and Neptune). What would happen to the strength of gravity if you...?**
    a. Moved away from Jupiter   b. Fell in to Jupiter