Solar System Webquest

Provide answers using a word document. Answers must be in complete sentences using proper grammar and spelling. Access the following websites and answer the questions under the websites:

**Solar System Data**

<http://pds.jpl.nasa.gov/planets/welcome.htm> (click on Planet Profiles)

<https://www.nasa.gov/content/planets-moons-and-dwarf-planets>

Complete the following table for each planet.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Rotation (Earth Days or Hours) | Revolution (Earth Days) | Atmosphere Description | Planet Type  (Terrestrial or Gassy) | Number of Moons | Size (Diameter) | Distance from the Sun |
| Mercury |  |  |  |  |  |  |  |
| Venus |  |  |  |  |  |  |  |
| Earth |  |  |  |  |  |  |  |
| Mars |  |  |  |  |  |  |  |
| Jupiter |  |  |  |  |  |  |  |
| Saturn |  |  |  |  |  |  |  |
| Uranus |  |  |  |  |  |  |  |
| Neptune |  |  |  |  |  |  |  |

**Using What You Know**

Use your data table from above, answer the following questions.

1. List the planets from smallest to greatest.
2. Which planet is the fourth largest planet?
3. Approximately how much larger is Earth than Mars?
4. What two planets could fit into Jupiter with the least amount of room leftover?
5. What planet has the longest day? How long?
6. What planet has a similar day as Earth?
7. Which planet has a longer day than its year?
8. On what planet would you celebrate the most birthdays?
9. On what planet would you celebrate the fewest birthdays?
10. What planets do not have any known moons?

**Your Weight on Other Worlds**

<http://www.exploratorium.edu/ronh/weight/>

1. State your weight (or an estimate):
2. Write your weight on each of the following eight planets:

|  |  |
| --- | --- |
| Mercury |  |
| Venus |  |
| Earth |  |
| Mars |  |
| Jupiter |  |
| Saturn |  |
| Uranus |  |
| Neptune |  |

1. What factor controls what you weigh on a particular planet?

Asteroids and Comets

<http://www.kidsastronomy.com/solar_system.htm>

<http://images.google.com/imghp?hl=en&tab=wi>

1. Describe the composition of a comet.
2. Where do comets come from?

<http://www.kidsastronomy.com/asteroid.htm>

1. Describe an asteroid.

2. How many large asteroids are in the solar system and what is the name of the largest?

3. Is the Earth in danger of being “smashed” by an asteroid?