

NAME: \_\_\_\_\_

Section Number: \_\_\_\_\_

### Homework 6: The Moon and Mercury

**Due:** in your section on **the week of March 3<sup>rd</sup>**. Be neat and concise, show your work, and remember units. An answer without the correct units is wrong.

**Required reading:** Lecture notes 13, 14 and 15, and chapters 2.3, 7.1, 8.4, 9.3, 10.3.

1. [2 Points] How do we know that craters on the Moon were formed by impacts, rather than volcanism?
  
  
  
  
  
  
  
  
  
  
2. [1 Point] What evidence of volcanism can easily be seen on the Moon and has recently been found on Mercury?
  
  
  
  
  
  
  
  
  
  
3. [2 Points] Why is the morphology (shape) of an impact crater different from the morphology of the crater formed when you throw a rock down in a sandbox?
  
  
  
  
  
  
  
  
  
  
4. Moon Dirt
  - a. [1 Point] What is the term for lunar soil?
  
  
  
  
  
  
  
  
  
  
  - b. [3 Points] How does a scoop of lunar soil differ from a scoop of soil from a flowerbed on Earth?

