

6. Which of the terrestrial planets is heavily cratered?

- a) Mercury
- b) Venus
- c) Earth
- d) Mars
- e) Pluto



7. Which of the following is **not** a general pattern of motion among the large bodies of the Solar System?

- a) planets orbit the Sun in circular orbits in nearly the same plane
- b) all planets orbit the Sun in the same direction
- c) most planets rotate in the same direction in which they orbit the Sun
- d) most planets rotate opposite to the direction in which they orbit Sun
- e) most of the large moons orbit their parent planet in the same direction the planet rotates.

D

8. If a radioactive element (call it "asparagus") has a half-life of one million years decaying into a daughter product (call it "broccoli"), how much time must pass before there is as much broccoli as asparagus in a sample?

- a) half a million years
- b) two million years
- c) you need to first know how much broccoli was in the original sample
- d) you need to first know how much asparagus was in the original sample
- e) you need to first know whether the half-life changes with time

C

9) What is the frost line?

- a) the Kuiper Belt
- b) the Oort cloud