

- (b) According to the 1500s redefinition ("orbits the sun"), there were six planets. List the new sixth planet that was added to the original five listed above, and briefly explain why it was not considered a planet before the 1500s.

"New" planet added in the 1500s: _____.

Explanation:

- (c) In 1859, there were 65 planets ("orbits the sun"). After the 1860 redefinition ("asteroids are not planets"), there were only eight planets. List four that were demoted from planet status in 1860, and then list the eight "official" planets, according to the 1860 redefinition.

Demoted planets in 1860:

_____, _____, _____, _____, (and 53 others).

Planets, according to 1860 redefinition:

_____, _____, _____, _____,

_____, _____, _____, _____.

- (d) In 2005, there were 1,259 planets ("asteroids are not planets"). After the 2006 redefinition (the IAU classification scheme), there were only eight planets. List four that were demoted from planet status in 2006, and then list the eight "official" planets, according to the 2006 redefinition.

Demoted planets in 2006:

_____, _____, _____, _____, (and 1,247 others).

Planets, according to 2006 redefinition:

_____, _____, _____, _____,

_____, _____, _____, _____.

- (e) According to the 2006 redefinition (the IAU classification scheme), there are five *dwarf planets*. List these dwarf planets below.

List of dwarf planets, according to 2006 redefinition:

_____, _____, _____, _____, _____.

- (f) Discuss a plausible motivation for why it was necessary to revise the definitions of planets in 1860 and again in 2006.

Explanation: