



Olympus Mons



Mt. Everest

Olympus Mons

Olympus Mons is a huge volcano on the surface of Mars. It is thought to be at least 13.6 miles high or 72,000 feet. It is the tallest planetary mountain in the solar system. Olympus Mons is a shield volcano. This means it was formed from liquid lava flows and resembles a warrior's shield lying on the ground. The massive volcano is said to be similar to the Hawaiian volcanoes Mauna Loa and Mauna Kea. Because of the shape and slope of Olympus Mons, a hypothetical visitor to Mars would be unable to see the entire profile, even from a great distance. Similarly, because the slope of the great volcano is so wide, an observer near the summit of the volcano would not realize he or she is at the top of a high mountain.

Mt. Everest

Mt. Everest is the highest mountain on the surface of the Earth. It is located on the border between the Asian nations of Nepal and China in the Himalayas Range. The peak of Mt. Everest rises to an elevation of 29,029 feet. Mt. Everest attracts experienced mountain climbers who face altitude sickness, blinding snowstorms, freezing cold temperatures, and avalanches as obstacles.

1. What do Mt. Everest and Olympus Mons have in common?

- A. They are both popular with climbers
- B. They are both volcanoes
- C. They are both the tallest mountains on their respective planets
- D. They are both over 70,000 feet high

2. Which of the following is likely true?

- A. Mt. Everest is a shield volcano
- B. Hawaiian volcanoes are likely shield volcanoes
- C. The Earth does not have shield volcanoes
- D. Olympus Mons is similar to Mt. Everest

3. Which of the following is an accurate comparison of the heights of Olympus Mons versus Mt. Everest?

- A. Olympus Mons is significantly taller than Mt. Everest
- B. Mt. Everest is significantly taller than Olympus Mons
- C. Olympus Mons is slightly taller than Mt. Everest
- D. Mt. Everest is significantly taller than Olympus Mons

4. From the surface of Mars...

- A. the peak of Olympus Mons would be visible through the clouds.
- B. the peak of Olympus Mons would sometimes be visible.
- C. the peak of Olympus Mons would not be visible.
- D. the peak of Olympus Mons would appear far away.

5. Which of the following analogies is correct?

Mt. Everest : Olympus Mons :: _____ : _____

- A. Cat; Dog
- B. Cat; Giraffe
- C. Horse; Pony
- D. Cat; Tiger