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## Exercise E2: The Magnitude Scale

Student name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Check the box with the correct answer.

**Question 1:** A magnitude 2 star is \_\_\_\_ times brighter than a magnitude 4 star.

- a. 2.512
- b. 6.31
- c. 15.85
- d. 100

**Question 2:** Which of the following four stars from the constellation Orion is the faintest?

- a. Bellatrix
- b. Mintaka
- c. Alnitak
- d. Saiph

**Question 3:** The Sun is the brightest object in the sky visible from Earth. What is the apparent magnitude of the Sun?

- a. 26.7
- b. 0.0, by definition.
- c. -10.0
- d. -26.7

**Question 4:** What is the second brightest object in our sky?

- a. Full Moon
- b. First Quarter Moon
- c. First Quarter Moon
- d. Sirius

**Question 5:** How much brighter is the planet Venus than the planet Mars on January 24, 2015?

- a. 5.1 times brighter
- b. 13 times brighter
- c. 37 times brighter
- d. 109 times brighter

**Question 6:** What is the absolute magnitude of the star Deneb?

- a. 8.75
- b. 11.3
- c. -8.75
- d. -11.3