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
- ☐ **b.** 0
- ☐ **c.** -12
- ☐ **d.** -26

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

- ☐ **a.** Full Moon
- ☐ **b.** First Quarter Moon
- ☐ **c.** Venus
- ☐ **d.** Sirius

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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