Test Bank for Explorations Introduction to Astronomy 8th Edition by Arny Full Downloa Chapter 02 Rest Bank: The Rise of Astronomy KEY ition-by-arny/

1. The Moon appears larger when it rises than when it is high in the sky because

- A. you are closer to it when it rises (angular-size relation).
- B. you are farther from it when it rises (angular-size relation).
- C. it's an illusion from comparison to objects on the horizon.
- D. it's brighter when it rises.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Subtopic: Observational astronomy Topic: History of Astronomy Topic: Locating Objects in the Sky

2. _____ was the first person to measure the circumference of the Earth.

- A. Ptolemy
- **B.** Copernicus
- C. Eratsothenes
- D. Galileo
- E. Aristarchus

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Historical: Shape and Size of the Earth Topic: History of Astronomy

3. When was it first known that the Earth was spherical in shape?

- A. It was always known to be spherical
- B. at the time of the Greeks
- C. at the beginning of the Renaissance
- D. only after Galileo used a telescope to study other planets
- E. only recently within the last 100 hundred years

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Historical: Shape and Size of the Earth Topic: History of Astronomy 4. What is the size of an object located at a distance of 1,000 meters and that has angular size A = 4 degrees?

A. about 11 meters B. about 35 meters <u>C.</u> about 70 meters D. about 4,000 meters

> Accessibility: Keyboard Navigation Blooms Level: 3. Apply Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

5. The angular size of an object increases as the distance to the observer increases.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

6. The angular size of the Sun as observed from Earth is about 0.5 degree.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Subtopic: Historical: Distances and Sizes of the Sun and Moon Topic: History of Astronomy

7. The angular size of the Moon as observed from Earth is about 0.5 degree.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Subtopic: Historical: Distances and Sizes of the Sun and Moon Topic: History of Astronomy

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8. One observation supporting the idea of a spherical Earth is that ______.

- A. the shape of the Earth's shadow on the Moon during an eclipse is circular
- B. a traveler moving south will see stars they could not previously see
- C. a ship moving away from the observer will move such that the hull is not seen, then the sails
- **D.** all of these choices are correct

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Historical: Shape and Size of the Earth Topic: History of Astronomy

9. The curved shape of the Earth's shadow during an eclipse was evidence for ____

- A. a flat, circular Earth
- B. a spherical Earth
- C. a spherical Moon
- D. A flat, circular Moon
- E. None of these choices is correct

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Historical: Shape and Size of the Earth Topic: History of Astronomy

10. Which of the following is a contribution that Eratosthenes made to astronomy?

- A. He determined the circumference of the Earth.
- B. He discovered epicycles.
- C. He discovered his Three laws (of Planetary Motion).
- D. He was the first person known to have pointed a telescope at the sky.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Historical: Shape and Size of the Earth Topic: History of Astronomy

11. What is meant by the phrase "angular size"?

A. an object's diameter

- B. how big an object looks, expressed as an angle
- C. the distance around an object
- D. the angle between two circular objects

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

12. If you triple your distance from an object, what happens to its angular size?

A. It decreases by one half.

- B. It stays the same.
- C. It reduces to one third of what it was.
- D. It increases by a factor of nine.

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

13. The Sun and the Moon have an angular size of approximately _____.

A. 1 degree B. 5 degrees <u>C.</u> 0.5 degree D. 23.5 degrees E. 2.35 degrees

> Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

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14. The similarity of the Sun's and the Moon's angular sizes allow _____ to occur.

A. tides B. lunar phases <u>C.</u> eclipses

- D. sunspots
- E. seasons

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

15. The apparent size of an object based on the amount of sky it covers is called its _____.

A. diameter

- B. shadow-width
- C. horizon D. angular size
- E. celestial extent

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

16. The Sun and the Moon have the same angular size. If the Sun is 400 times farther away than the Moon, the Sun must be _____ times the size of the Moon.

<u>**A.**</u> 400 B. 1/400 C. 1/4 D. 4 E. 4π

> Accessibility: Keyboard Navigation Blooms Level: 3. Apply Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Subtopic: Historical: Distances and Sizes of the Sun and Moon Topic: History of Astronomy

17. One of two identical buildings is nearby, the other is twice as far away as the first. The angular size of the more distant building is ____ the nearby building's angular size.

A. two times B. four times <u>C.</u> one half D. one fourth E. the same as

> Accessibility: Keyboard Navigation Blooms Level: 3. Apply Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Topic: History of Astronomy

18. When the Moon is on the horizon, it appears larger than when it is high in the sky. Why?

- A. When it is on the horizon, it is closer to us.
- **<u>B.</u>** This is an optical illusion.
- C. The brightness of the Moon makes it seem larger.
- D. The Earth's atmosphere acts like a lens, magnifying it.
- E. Its angular size is larger on the horizon.

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.01 Subtopic: Diameter-distance Relation (a.k.a. the small angle formula) Subtopic: Historical: Distances and Sizes of the Sun and Moon Topic: History of Astronomy

19. One observation that supported an Earth-centered solar system is _____

- A. retrograde motion
- B. the phases of the Moon
- C. the lack of parallax in the stars
- D. the shape of the Earth's shadow on the Moon
- E. the phases of Venus

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20. The shift of a star's apparent position due to the Earth's motion around the Sun is called _____.

<u>A.</u> parallax B. retrograde motion C. prograde motion D. geocentricity E. proper motion

> Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Geocentric Models Subtopic: Parallax Topic: History of Astronomy

21. The parallax shift of a nearby star would be _____ that of a more distant star.

- A. greater than
- B. less than
- C. the same as
- D. brighter than
- E. faster than

Accessibility: Keyboard Navigation Blooms Level: 3. Apply Difficulty: Easy Gradable: automatic Section: 02.01 Subtopic: Parallax Topic: History of Astronomy

22. The paths of the planets in the sky are tilted with respect to the celestial equator by about

A. 5 degrees.

- B. 23 degrees.
- C. 45 degrees.
- D. 90 degrees.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

23. One of the methods used to date supernova remnants (the remains of exploded stars) today is by using

A. the notebooks of Galileo.

- B. the records of ancient Chinese, Japanese, and Korean astronomers.
- C. the works of Ptolemy.
- D. kepler's laws.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

24. Which of the following objects passes through the zodiac?

A. Sun.

- B. Planets.
- C. Earth and Moon.
- D. All of these choices are correct.
- E. None of these choices is correct.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Subtopic: The ecliptic Topic: History of Astronomy Topic: Locating Objects in the Sky

25. What is retrograde motion?

- A. East to west motion of the Sun over many successive nights
- B. east to west motion of the Moon relative to the stars over many successive nights
- C. occasional east to west motion of the planets relative to the stars over many successive nights
- D. occasional west to east motion of the planets relative to the stars over many successive nights

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

A. east; west (moves westward) B. west; east (moves eastward)

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27. Retrograde motion is discernible by watching a planet over the course of

A. a few minutes.

- B. many hours.
- C. many nights.
- D. many years.

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28. During the course of a single night, a planet that is moving in retrograde motion will move

A. east to west.

- B. west to east.
- C. not at all.
- D. randomly about the sky.

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29. Imagine the much more massive Jupiter were to switch places with the less massive Mercury. Which of the following would accurately describe the outcome?

- A. Jupiter would orbit the Sun in less time than it did before.
- B. Mercury would orbit the Sun in less time than it did before.
- C. The orbital time for each of the planets would not change.

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30. The paths of the planets' orbits lie in all different directions in the sky.

FALSE

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31. The inability to observe parallax of stars contributed to the ancient Greek astronomers' rejection of the idea that the Earth revolves around the Sun.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Geocentric Models Subtopic: Heliocentric Models Subtopic: Parallax Topic: History of Astronomy

32. The motion of the Sun with respect to the stars is retrograde, i.e., east to west relative to the stars.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

33. During retrograde motion, the planet Mars rises in the west and sets in the east.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy 34. Parallax is the shift in a star's apparent position due to the Earth's motion around the Sun.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Geocentric Models Subtopic: Heliocentric Models Subtopic: Parallax Topic: History of Astronomy

35. The concept of the epicycle was introduced in the heliocentric model to explain the retrograde motion of the planets.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Epicycles Subtopic: Geocentric Models Subtopic: Motion of the planets Topic: History of Astronomy

36. In the heliocentric model, the retrograde motion of the planets was explained as the consequence of the different orbital speeds of the planets, without the use of epicycles.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Epicycles Subtopic: Heliocentric Models Subtopic: Motion of the planets Topic: History of Astronomy

37. Where on the celestial sphere would you look for the planets?

A. on the celestial equator

- B. on the galactic equator
- <u>**C.**</u> in the zodiac (near the ecliptic)

D. at the north celestial pole

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38. If you see a bright "star" in the sky, how could you tell whether it is a star or a planet?

- A. Planets are too dim to be seen without a telescope.
- B. Planets are round; stars have five points.
- C. Planets always appear right next to the Moon.
- D. Look at it several days later-if it's a planet, it will move across the background stars.

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39. The planets move _____ through the sky, relative to the background stars.

- A. east to west
- B. west to east
- C. retrograde
- D. northeast to southwest
- E. none of these choices is correct

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40. Of the earliest known planets, which exhibits retrograde motion?

A. all of these choices are correct

- B. none of these choices is correct
- C. only Mars
- D. Mercury, Venus, and Mars
- E. Mars and Mercury

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41. What do we call it when a planet moves backward (east to west) through the stars?

<u>A.</u> retrograde motion B. the Zodiac

- C. regression
- D. prograde motion

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42. Where will a planet in retrograde motion rise?

A. in the north

- B. in the south
- C. in the east (just like everything else in the sky)
- D. in the west (the opposite of everything else in the sky)

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43. The planets (other than Earth) known to ancient Western cultures were _____.

A. Mercury, Venus, and Mars

- B. Venus, Mars, Jupiter, and Saturn
- C. Venus, Jupiter, Saturn, Uranus, and Neptune
- D. Mercury, Venus, Mars, Jupiter, and Saturn
- E. Mercury, Mars, Jupiter, and Saturn

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy 44. As the planets orbit the Sun, they are never far from the _____ on the celestial sphere.

<u>A.</u> ecliptic B. celestial equator C. horizon D. celestial pole E. meridian

> Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

45. The path of the planets through the sky is tipped 23.5 degrees from the _____.

- A. celestial equator
- B. ecliptic
- C. zodiac
- D. north celestial pole
- E. the plane of the galaxy

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Motion of the planets Topic: History of Astronomy

46. The geocentric model was based on the observation that _____

- A. everything moves around the Earth from east to west
- B. the sphere was a divine shape
- C. crystalline spheres rotated through the sky
- D. the Sun and Moon were flawless spheres
- E. the Earth is motionless in space

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.02 Subtopic: Geocentric Models Topic: History of Astronomy

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47. One phenomenon that the geocentric models struggled to explain was _____.

A. sunspots

- B. the rotation of the Earth
- <u>**C.</u> retrograde motion**</u>
- D. parallax
- E. epicycles

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Geocentric Models Topic: History of Astronomy

48. An epicycle was used in geocentric models to explain _____.

- A. parallax
- B. aurora
- C. retrograde motion
- D. eclipses
- E. the Earth's circular shadow

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Subtopic: Geocentric Models Topic: History of Astronomy

49. Islamic scholars _____.

- A. studied and expanded upon older texts in astronomy
- B. made detailed studies of the motions of the planets
- C. influenced the naming of bright stars
- D. developed algebra
- E. all of these choices are correct

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Topic: History of Astronomy

50. Asian astronomers ____

- A. kept detailed records of unusual celestial events
- B. devised ways to predict eclipses
- C. recorded the existence of sunspots
- <u>**D.**</u> All of these choices are correct

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.02 Topic: History of Astronomy

51. Kepler's Third, or harmonic, law states that the

A. period of an orbit cubed equals the semi-major axis squared.

- B. semi-major axis of an orbit cubed equals the period squared.
- C. planets move fastest when they are closest to the Sun.
- D. semi-major axis of an orbit is inversely proportional to the period.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler's Laws Topic: History of Astronomy

52. Copernicus' heliocentric model failed to work as well as it might to predict the positions of planets because Copernicus insisted the orbits were

A. circular.

- B. elliptical.
- C. circular, mounted on epicycles.
- D. hyperbolic.

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Heliocentric Models Subtopic: Motion of the planets Topic: History of Astronomy

- A. a supernova (exploding star); much farther away than the planets
- B. a comet; outside the Earth's atmosphere
- C. the Sun; the center of the solar system
- D. both A; and B
- E. A; B and C

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Geocentric Models Topic: History of Astronomy

54. The general heliocentric model proposed by Copernicus was appealing, and eventually became preferred, because

- A. it explained why we do not observe stellar parallax.
- B. it replaced the Earth with the Sun as the center of the solar system.
- <u>C.</u> it was more aesthetically pleasing than the complicated Ptolemaic model.
- D. it made more accurate predictions than the Ptolemaic model.

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Geocentric Models Subtopic: Heliocentric Models Topic: History of Astronomy

55. In _____ models, the Sun is assumed as the center of the solar system.

A. Heliocentric

B. Geocentric

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Heliocentric Models Topic: History of Astronomy

56. Galileo was the first to observe the phases of _____.

A. the moon $\underline{B.}$ the venus C. the earth

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Galileo Topic: History of Astronomy

57. In Copernicus' model of the solar system, the planets orbited the _____ in _____ orbits.

A. Earth; circular

B. Sun; elliptical

<u>C.</u> Sun; circular

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Heliocentric Models Topic: History of Astronomy

58. _____ major contribution to astronomy is his extensive series of measurements of planetary positions.

<u>A.</u> Tycho Brahe's B. Galileo's C. Kepler's

> Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Motion of the planets Topic: History of Astronomy

A. Tycho; Kepler; circular B. Tycho; Kepler; elliptical <u>C.</u> Kepler; Tycho; elliptical

D. Kepler; Galileo; elliptical

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

60. Kepler's _____ law states that the orbits of planets are elliptical, with the Sun at one focus.

A. First

B. Second

C. Third

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

61. From Kepler's _____ law, we conclude that the planets do not move with constant speed.

A. First

B. Second

C. Third

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy 62. From Kepler's _____ law, we conclude that Mars completes a full orbit much faster than Pluto.

A. First B. Second <u>C.</u> Third

> Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

63. Observations indicate that it takes Saturn longer than Jupiter to complete one orbit about the Sun. This is in agreement with which of Kepler's laws?

A. First

B. Second

C. Third

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

64. The time between the vernal equinox and the autumnal equinox is somewhat greater than the time between the autumnal equinox and the vernal equinox. This is a result of Kepler's _____ law.

A. First <u>**B.**</u> Second C. Third

> Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Hard Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

65. Copernicus' model was significantly better at predicting future positions of planets than Ptolemy's.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Heliocentric Models Topic: History of Astronomy 66. Galileo deduced many empirical laws of motion before Newton was even born.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Galileo Topic: History of Astronomy

67. During the month of January, the Earth goes through the point of closest approach to the Sun. Using Kepler's Second law we can conclude that the Earth moves faster in January than in July.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Kepler Subtopic: Motion of the planets Topic: History of Astronomy

68. In geocentric theories, the Earth is assumed to be the center of the solar system.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Geocentric Models Topic: History of Astronomy

69. The Sun is located at the center of the Earth's elliptical orbit.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Kepler Topic: History of Astronomy

70. According to Kepler's laws the Sun is located at one of the foci of the Earth's orbit.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Kepler Topic: History of Astronomy 71. Copernicus was able to calculate the distances to the observed planets relative to the Earth's distance from the Sun.

TRUE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Heliocentric Models Subtopic: Motion of the planets Topic: History of Astronomy

72. Which of the following is a contribution that Kepler made to astronomy?

- A. He determined the size of the Earth.
- B. He discovered epicycles.
- C. He discovered his Three laws (of Planetary Motion).
- D. He discovered four moons (or satellites) of Jupiter.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Kepler's Laws Topic: History of Astronomy

73. Which of the following is a contribution that Galileo made to astronomy?

- A. He determined the size of the Earth.
- B. He discovered epicycles.
- C. He developed the first successful heliocentric theory.
- D. He discovered four moons (or satellites) of Jupiter.

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Easy Gradable: automatic Section: 02.03 Subtopic: Galileo Topic: History of Astronomy

74. Galileo's observation of sunspots showed that ____

A. the Sun was not a flawless sphere

- B. the Earth revolved around the Sun
- C. planets moved along elliptical orbits around the Sun
- D. the stars could change
- E. none of these choices is correct

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- A. there were objects that did not orbit the Earth
- B. planets orbited the Sun
- C. the Moon was not a flawless sphere
- D. nothing orbited the Earth
- E. none of these choices is correct

Accessibility: Keyboard Navigation Blooms Level: 2. Understand Difficulty: Medium Gradable: automatic Section: 02.03 Subtopic: Galileo Topic: History of Astronomy

76. Tycho Brahe relied on the use of telescopes to record his accurate positions for the planets.

FALSE

Accessibility: Keyboard Navigation Blooms Level: 1. Remember Difficulty: Medium Gradable: automatic Subtopic: Motion of the planets Topic: History of Astronomy

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Category	<u># of Questions</u>
Accessibility: Keyboard Navigation	76
Blooms Level: 1. Remember	46
Blooms Level: 2. Understand	26
Blooms Level: 3. Apply	4
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