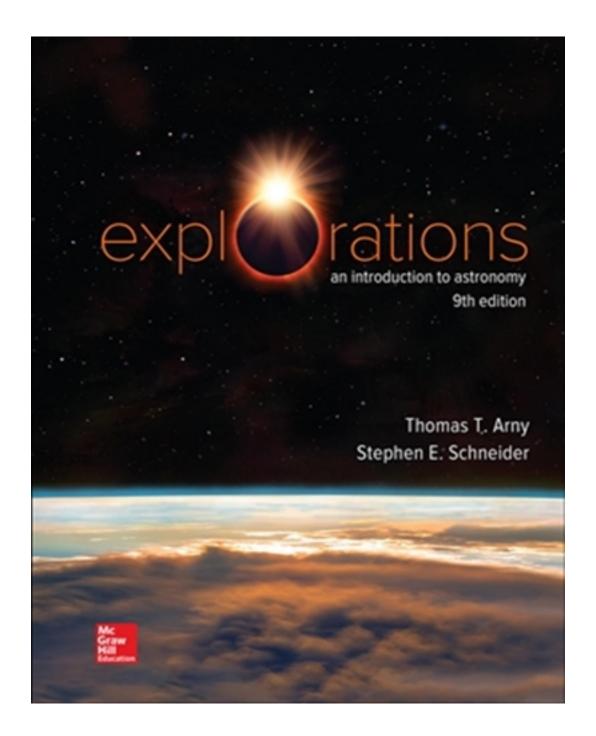
Test Bank for Explorations 9th Edition by Arny

CLICK HERE TO ACCESS COMPLETE Test Bank



Test Bank

An Introduction to Astronomy, 9e (Arny) Chapter 2 The Rise of Astronomy

- 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.

Answer: C

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy; Locating Objects in the Sky

Bloom's: 1. Remember Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula); Observational astronomy

- 2) _____ was the first person to measure the circumference of Earth.
- A) Ptolemy
- B) Copernicus
- C) Eratosthenes
- D) Galileo
- E) Aristarchus

Answer: C

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Historical: Shape and Size of Earth

- 3) When was it first known that 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 hundred years

Answer: B

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Historical: Shape and Size of Earth

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

C) about 70 meters

D) about 4,000 meters

Answer: C

Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy

Bloom's: 3. Apply Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

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

Answer: FALSE Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

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

Answer: TRUE Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula); Historical: Distances and

Sizes of the Sun and Moon

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

Answer: TRUE
Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula); Historical: Distances and

Sizes of the Sun and Moon

- 8) One observation supporting the idea of a spherical Earth is that _____.
- A) the shape of 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.

Answer: D

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

Subtopic: Historical: Shape and Size of Earth

- 9) The curved shape of 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.

Answer: B

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

Subtopic: Historical: Shape and Size of Earth

- 10) Which of the following is a contribution that Eratosthenes made to astronomy?
- A) He determined the circumference of 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.

Answer: A
Difficulty: 1 Easy
Section: 02.01

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Historical: Shape and Size of Earth

- 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

Answer: B

Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

- 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.

Answer: C

Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

13) The Sun and the Moon have an angular size of approximately
A) 1 degree
B) 5 degrees
C) 0.5 degree
D) 23.5 degrees
E) 2.35 degrees
Answer: C
Difficulty: 2 Medium
Section: 02.01
Topic: History of Astronomy
Bloom's: 2. Understand
Gradable: automatic
Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)
14) The similarity of the Sun's and the Moon's angular sizes allows to occur.
A) tides
B) lunar phases
C) eclipses
D) sunspots
E) seasons
Answer: C
Difficulty: 2 Medium
Section: 02.01
Topic: History of Astronomy
Bloom's: 2. Understand
Gradable: automatic Subtania: Diameter distance Polation (alk a the small angle formula)
Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)
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
Answer: D
Difficulty: 2 Medium
Section: 02.01
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic
Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

CLICK HERE TO ACCESS THE COMPLETE Test Bank

16) The Sun and the Moon have the same angular size. If the Sun is 400 times farther away from
the Moon, the Sun must be times the size of the Moon.
A) 400
B) 1/400
C) 1/4
D) 4
E) 4π
Answer: A
Difficulty: 2 Medium
Section: 02.01
Topic: History of Astronomy
Bloom's: 3. Apply
Gradable: automatic
Subtopic: Diameter-distance Relation (a.k.a. the small angle formula); Historical: Distances and
Sizes of the Sun and Moon
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
C) one half
D) one fourth
E) the same as
Answer: C
Difficulty: 2 Medium
Section: 02.01
Topic: History of Astronomy
Bloom's: 3. Apply
Gradable: automatic
Subtopic: Diameter-distance Relation (a.k.a. the small angle formula)

- 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.
- B) This is an optical illusion.
- C) The brightness of the Moon makes it seem larger.
- D) Earth's atmosphere acts like a lens, magnifying it.
- E) Its angular size is larger on the horizon.

Answer: B

Difficulty: 2 Medium

Section: 02.01

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Diameter-distance Relation (a.k.a. the small angle formula); Historical: Distances and

Sizes of the Sun and Moon

- 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 Earth's shadow on the Moon
- E) the phases of Venus

Answer: C

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Geocentric Models; Parallax

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

- A) parallax
- B) retrograde motion
- C) prograde motion
- D) geocentricity
- E) proper motion

Answer: A

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy Bloom's: 1. Remember

Gradable: automatic

Subtopic: Geocentric Models; Parallax

- 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

Answer: A

Difficulty: 1 Easy Section: 02.01

Topic: History of Astronomy

Bloom's: 3. Apply Gradable: automatic Subtopic: Parallax

- 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.

Answer: B

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets

- 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.

Answer: B

Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember

Gradable: automatic

- 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.

Answer: D

Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy; Locating Objects in the Sky

Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets; The ecliptic

- 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

Answer: C Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets

26) During retrograde motion, a planet moves from ______ to _____ relative to the stars.

A) east; west (moves westward)

B) west; east (moves eastward)

Answer: A

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand

Gradable: automatic

- 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.

Answer: C

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets

- 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.

Answer: A

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand

Gradable: automatic

Subtopic: Motion of the planets

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

Answer: A

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy

Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets; Kepler

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

Answer: FALSE Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets

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

Answer: TRUE Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Geocentric Models; Parallax; Heliocentric Models

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

Answer: FALSE Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets

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

Answer: FALSE Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

34) Parallax is the shift in a star's apparent position due to Earth's motion around the Sun.

Answer: TRUE Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Geocentric Models; Parallax; Heliocentric Models

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

Answer: FALSE Difficulty: 2 Medium Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Geocentric Models; Motion of the planets; Epicycles

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.

Answer: TRUE
Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets; Heliocentric Models; Epicycles

- 37) Where on the celestial sphere would you look for the planets?
- A) on the celestial equator
- B) on the galactic equator
- C) in the zodiac (near the ecliptic)
- D) at the north celestial pole

Answer: C

Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

- 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.

Answer: D

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets

- 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.

Answer: B

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets

- 40) Of the earliest known planets, which exhibits retrograde motion?
- A) only Mars
- B) Mercury, Venus, and Mars
- C) Mars and Mercury
- D) All of these choices are correct.
- E) None of these choices is correct.

Answer: D

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember

Gradable: automatic

- 41) What do we call it when a planet moves backward (east to west) through the stars?
- A) retrograde motion
- B) the Zodiac
- C) regression
- D) prograde motion

Answer: A Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember

Gradable: automatic

Subtopic: Motion of the planets

- 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)

Answer: C

Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets

- 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

Answer: D

Difficulty: 1 Easy Section: 02.02

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic

44) As the planets orbit the Sun, they are never far from the A) ecliptic	on the celestial sphere.
B) celestial equator	
C) horizon	
D) celestial pole E) maridian	
E) meridian	
Answer: A	
Difficulty: 1 Easy	
Section: 02.02	
Topic: History of Astronomy	
Bloom's: 1. Remember Gradable: automatic	
Subtopic: Motion of the planets	
z weetspies 1.10 floor of the primites	
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	
, 1	
Answer: A	
Difficulty: 1 Easy	
Section: 02.02 Topic: History of Astronomy	
Bloom's: 2. Understand	
Gradable: automatic	
Subtopic: Motion of the planets	
46) The geocentric model was based on the observation that	•
A) everything moves around 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) Earth is motionless in space	
Answer: A	
Difficulty: 1 Easy	
Section: 02.02	
Topic: History of Astronomy	
Bloom's: 2. Understand	
Gradable: automatic	

Subtopic: Geocentric Models

47) One phenomenon that the geocentric models struggled to explain was
A) sunspots B) the rotation of Earth
C) retrograde motion D) poraller
D) parallax E) epicycles
E) epicycles
Answer: C
Difficulty: 2 Medium
Section: 02.02
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic
Subtopic: Geocentric Models
48) An epicycle was used in geocentric models to explain
A) parallax
B) aurora
C) retrograde motion
D) eclipses
E) Earth's circular shadow
Answer: C
Difficulty: 2 Medium
Section: 02.02
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic
Subtopic: Geocentric Models
40) 1.1
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.
L) All of these choices are correct.
Answer: E
Difficulty: 2 Medium
Section: 02.02
Topic: History of Astronomy
Bloom's: 1 Remember

Gradable: automatic

50)	Asian	astronomers	

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

Answer: D

Difficulty: 2 Medium

Section: 02.02

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Motion of the planets

- 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.

Answer: B

Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic Subtopic: Kepler's Laws

- 52) Copernicus's heliocentric model failed to work as well as it might fail to predict the positions of planets because Copernicus insisted the orbits were
- A) circular.
- B) elliptical.
- C) circular, mounted on epicycles.
- D) hyperbolic.

Answer: A

Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy

Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets; Heliocentric Models

53) One of Tycho Brahe's major contributions to astronomy was to prove that	was
·	
A) a supernova (exploding star); much farther away than the planets	
B) a comet; outside Earth's atmosphere	
C) the Sun; the center of the solar system	
D) both A and B	

Answer: D

E) A, B, and C

Difficulty: 2 Medium Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Geocentric Models

- 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 Earth with the Sun as the center of the solar system.
- C) it was more aesthetically pleasing than the complicated Ptolemaic model.
- D) it made more accurate predictions than the Ptolemaic model.

Answer: C

Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Geocentric Models; Heliocentric Models

- 55) In _____ models, the Sun is assumed as the center of the solar system.
- A) Geocentric
- B) Anthropomorphic
- C) Epicyclic
- D) Heliocentric

Answer: D

Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Heliocentric Models

56) Galileo was the first to observe the phases of A) the moon B) Venus C) Earth D) the sun
Answer: B Difficulty: 1 Easy Section: 02.03 Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic Subtopic: Galileo
57) In Copernicus' model of the solar system, the planets orbited the in orbits. A) Earth; circular B) Sun; elliptical C) Sun; circular D) Earth; elliptical
Answer: C Difficulty: 2 Medium Section: 02.03 Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic Subtopic: Heliocentric Models
58) major contribution to astronomy is his extensive series of measurements of planetary positions. A) Tycho Brahe's B) Galileo's C) Kepler's D) Copernicus's
Answer: A Difficulty: 2 Medium Section: 02.03 Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic Subtopic: Motion of the planets

CLICK HERE TO ACCESS THE COMPLETE Test Bank

59) used the extensive records of planetary positions measured by to
discover that the orbits of the planets are
A) Tycho; Kepler; circular
B) Tycho; Kepler; elliptical
C) Kepler; Tycho; elliptical
D) Kepler; Galileo; elliptical
2) Hoplet, Guines, emption
Answer: C
Difficulty: 2 Medium
Section: 02.03
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic
Subtopic: Motion of the planets; Kepler
60) Kepler's law states that the orbits of planets are elliptical, with the Sun at one
focus.
A) First
B) Second
C) Third
D) Fourth
Answer: A
Difficulty: 2 Medium
Section: 02.03
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic
Subtopic: Motion of the planets; Kepler
subtopic. Wotton of the planets, replet
61) From Kepler's law, we conclude that the planets do not move with constant speed.
A) First
B) Second
C) Third
D) Fourth
Answer: B
Difficulty: 2 Medium Section: 02.03
Topic: History of Astronomy
Bloom's: 1. Remember
Gradable: automatic Subtania: Mation of the planeta: Vanlan
Subtopic: Motion of the planets; Kepler

CLICK HERE TO ACCESS THE COMPLETE Test Bank

62) From Kepler's Pluto.	law, we conclude that Mars completes a full orbit much faster than
A) First	
B) Second	
C) Third	
D) Fourth	
Answer: C	
Difficulty: 2 Medium	
Section: 02.03	
Topic: History of Astro	
Bloom's: 1. Remember	
Gradable: automatic	1 , 17 1
Subtopic: Motion of th	e planets; Kepler
Sun. This is in agreeme	ate that it takes Saturn longer than Jupiter to complete one orbit about the nt with which of Kepler's laws?
A) First	
B) Second	
C) Third	
D) Fourth	
Answer: C	
Difficulty: 2 Medium	
Section: 02.03	
Topic: History of Astro	•
Bloom's: 1. Remember	,
Gradable: automatic	1 , 17 1
Subtopic: Motion of th	e planets; Kepler
	he vernal equinox and the autumnal equinox is somewhat greater than the anal equinox and the vernal equinox. This is a result of Kepler's
law.	
A) First	
B) Second	
C) Third	
D) Fourth	
Answer: B	
Difficulty: 3 Hard	
Section: 02.03	
Topic: History of Astro	•
Bloom's: 1. Remember	
Gradable: automatic	
Subtopic: Motion of th	e planets; Kepler

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

Answer: FALSE Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Heliocentric Models

66) Galileo deduced many empirical laws of motion before Newton was even born.

Answer: TRUE Difficulty: 2 Medium Section: 02.03

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic Subtopic: Galileo

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

Answer: TRUE Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic

Subtopic: Motion of the planets; Kepler

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

Answer: TRUE Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic

Subtopic: Geocentric Models

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

Answer: FALSE Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic Subtopic: Kepler

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

Answer: TRUE Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic Subtopic: Kepler

71) Copernicus was able to calculate the distances to the observed planets relative to Earth's distance from the Sun.

Answer: TRUE Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember

Gradable: automatic

Subtopic: Motion of the planets; Heliocentric Models

- 72) Which of the following is a contribution that Kepler made to astronomy?
- A) He determined the size of Earth.
- B) He discovered epicycles.
- C) He discovered his Three laws (of Planetary Motion).
- D) He discovered four moons (or satellites) of Jupiter.

Answer: C

Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy

Bloom's: 1. Remember Gradable: automatic Subtopic: Kepler's Laws

- 73) Which of the following is a contribution that Galileo made to astronomy?
- A) He determined the size of Earth.
- B) He discovered epicycles.
- C) He developed the first successful heliocentric theory.
- D) He discovered four moons (or satellites) of Jupiter.

Answer: D Difficulty: 1 Easy Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember
Gradable: automatic

Gradable: automatic Subtopic: Galileo

- 74) Galileo's observation of sunspots showed that _____.
- A) the Sun was not a flawless sphere
- B) 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.

Answer: A

Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic Subtopic: Galileo

- 75) Galileo's observation of the satellites of Jupiter showed that _____.
- A) there were objects that did not orbit Earth
- B) planets orbited the Sun
- C) the Moon was not a flawless sphere
- D) nothing orbited Earth
- E) None of these choices is correct.

Answer: A

Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy Bloom's: 2. Understand Gradable: automatic Subtopic: Galileo

CLICK HERE TO ACCESS THE COMPLETE Test Bank

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

Answer: FALSE Difficulty: 2 Medium

Section: 02.03

Topic: History of Astronomy Bloom's: 1. Remember Gradable: automatic