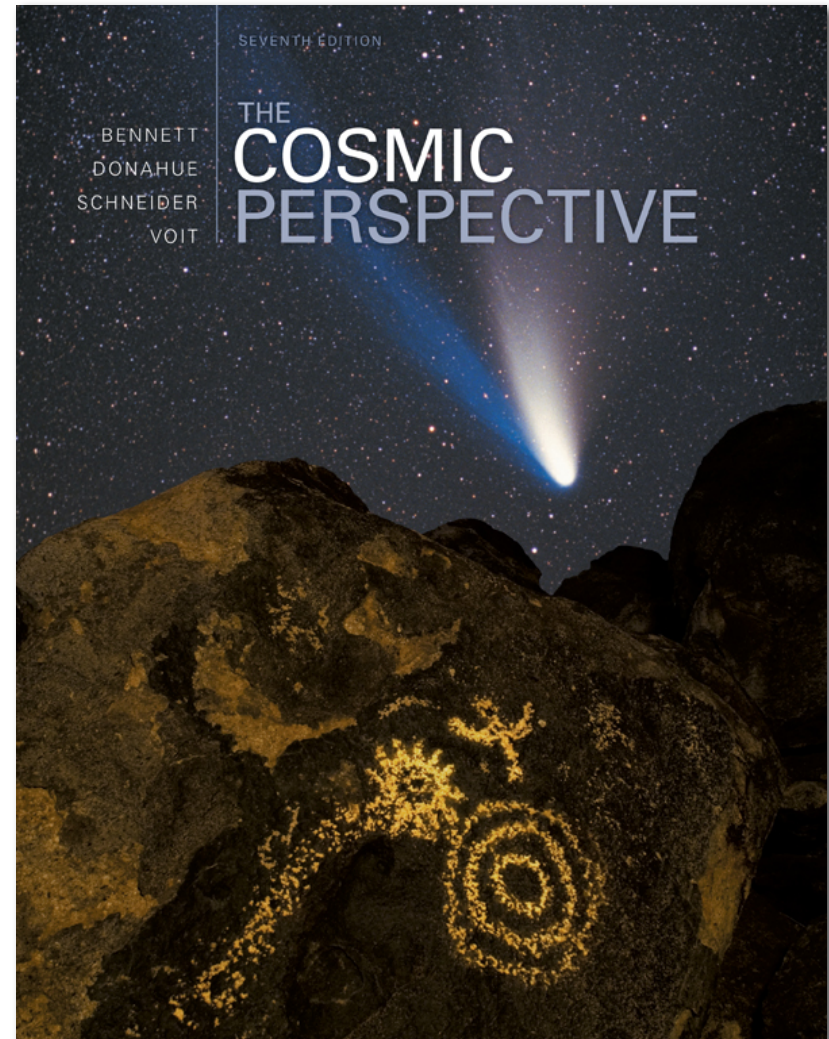


The Cosmic Perspective

Seventh Edition

A Modern View of the Universe



Put these objects in the correct order, from nearest to farthest from Earth:

- a) The Moon, Mars, the Sun, the nearest stars, Pluto
- b) The Moon, Mars, the Sun, Pluto, the nearest stars
- c) The Moon, the Sun, Mars, Pluto, the nearest stars
- d) Mars, the Moon, the Sun, the nearest stars, Pluto

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- b) The Moon, Mars, the Sun, Pluto, the nearest stars**
- c) The Moon, the Sun, Mars, Pluto, the nearest stars
- d) Mars, the Moon, the Sun, the nearest stars, Pluto

Chapter 1

Put these objects in the correct order, from nearest to farthest from Earth:

- a) The Sun, the Milky Way, Alpha Centauri, Pluto, the Andromeda galaxy
- b) The Sun, Alpha Centauri, Pluto, the Andromeda galaxy, the Milky Way
- c) The Sun, Pluto, Alpha Centauri, the Milky Way, the Andromeda galaxy
- d) Pluto, the Sun, Alpha Centauri, the Milky Way, the Andromeda galaxy

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Put these objects in the correct order, from nearest to farthest from Earth:

- a) The Sun, the Milky Way, Alpha Centauri, Pluto, the Andromeda galaxy
- b) The Sun, Alpha Centauri, Pluto, the Andromeda galaxy, the Milky Way
- c) The Sun, Pluto, Alpha Centauri, the Milky Way, the Andromeda galaxy**
- d) Pluto, the Sun, Alpha Centauri, the Milky Way, the Andromeda galaxy

Chapter 1

Which is farther, the distance from San Francisco to Los Angeles, or the distance from you to the space shuttle if the shuttle passes directly overhead?

- a) San Francisco to Los Angeles is farther.
- b) The space shuttle is farther.

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What is the effect of the expansion of the universe?

- a) The galaxies are getting farther apart from each other.
- b) Each galaxy is getting larger.
- c) The solar system is getting larger.
- d) all of the above

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- d) all of the above

Does the expansion of the universe cause you to expand?

- a) Yes
- b) No

Does the expansion of the universe cause you to expand?

a) Yes

b) No

Which of the following is NOT a way in which we move through the universe?

- a) The Milky Way orbits the center of the universe.
- b) Our solar system orbits the center of our galaxy.
- c) The Earth orbits the Sun.
- d) The Earth is spinning on its axis.

Which of the following is NOT a way in which we move through the universe?

- a) The Milky Way orbits the center of the universe.**
- b) Our solar system orbits the center of our galaxy.
- c) The Earth orbits the Sun.
- d) The Earth is spinning on its axis.

In a scale model solar system that used a grapefruit to represent the Sun, how large would Earth be?

- a) the size of an orange
- b) the size of a marble
- c) the size of the point of a ballpoint pen
- d) the size of a bacterium

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Chapter 1

In a scale model solar system that used a grapefruit to represent the Sun, how far away would Earth be?

- a) 6 inches
- b) 1 foot
- c) 5 feet
- d) 50 feet
- e) 1 mile

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Chapter 1

In a scale model solar system that used a grapefruit to represent the Sun, how far away would Pluto—the edge of the solar system—be?

- a) 100 feet
- b) 200 feet
- c) 2000 feet
- d) 10 miles

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Chapter 1

In a scale model solar system that used a grapefruit to represent the Sun, how far away should you put another grapefruit to represent Alpha Centauri, the next nearest star?

- a) 10 feet
- b) 1000 feet
- c) 1 mile
- d) 10 miles
- e) 2000 miles

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In a scale model solar system that used a grapefruit to represent the Sun, how far away should you put another grapefruit to represent Alpha Centauri, the next nearest star?

- a) 10 feet
- b) 1000 feet
- c) 1 mile
- d) 10 miles
- e) 2000 miles**

At the *speed of light*, how long would it take to go from Earth to the Sun?

- a) about a second
- b) about a minute
- c) about 8 minutes
- d) about a day
- e) about a year

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At the *speed of light*, how long would it take to reach the nearest star, Alpha Centauri?

- a) about a month
- b) about a year
- c) about 4 years
- d) about 1,000 years
- e) about 1,000,000 years

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At the *speed of light*, how long would it take to reach the nearest star, Alpha Centauri?

- a) about a month
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- c) about 4 years**
- d) about 1,000 years
- e) about 1,000,000 years

About how old is Earth?

- a) 6000 years
- b) 1 million years
- c) 1 billion years
- d) 5 billion years
- e) 14 billion years

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- e) 14 billion years