

Earth in Space

Thursday, January 19, 2023

7:32 PM

- Earth as a Sphere
 - Pythagoras: First to call the Earth Round
 - Plato: The Earth is spherical
 - Aristotle: Gave first arguments
 - Plato argued that because a sphere is a perfect shape, Earth must be spherical but had no explanation.
 - Aristotle
 - Shape of Earth's shadow at lunar eclipse appears circular.
 - Different stars are visible at northern and southern latitudes.
- So how big is the Earth?
 - First person to attempt to measure the Earth
 - Used shadows cast from sun to calculate the Earth's circumference used to ~40,000km, which was a very accurate estimate
 - Measured the tilt of the Earth axis as 23.5 degrees (gives us seasons)
 - Experiment:
 - Eratosthenes knew that at noon on the summer solstice the sun shone directly to the bottom of a well at Syene (now Aswan), Egypt
 - He found that at the same time, in Alexandria, Egypt, approximately 800 km due north of Syene, the angle of inclination of the sun's rays was about 7.2 degrees
 - He estimated the girth of Earth as 250,000 stadia.
 - How long was a stadion (or stade)?
 - Estimated by modern scholars as between 157 and 167 m
 - Earth's circumference between 39,250 km and 41,750 km.
- Distance to Sun and Moon
 - Aristarchus figured out how to measure the relative distances to the sun and the moon
 - His estimate was a bit off but showed that the Sun was 19 times farther away from the moon.
 - He wasn't close, he was quite far - the sun is 400 times farther from us than the moon
 - Size of the moon
 - He measured the angular size of Earth's shadow on the Moon from the positions of the moon before and after a lunar eclipse. He could then compare this angular size to the angular size of the Moon and estimate the size of the moon relative to Earth.
 - Size of the sun
 - He also reasoned that since the Sun and the Moon have the same angular size, but the Sun was estimated to be 19 times farther away, then the Sun must be 19 times bigger than the moon.
 - Proposed the Heliocentric Solar System.
 - His method was correct but he made an error when measuring the angle. He estimated it was 87 degrees which led to his conclusion that the Sun was 19 times larger than the moon. Theta is actually 15 arcminutes or 0.25 degrees.
- Scaling of Sizes
 - If the Sun were to be represented by 100 mm-diameter softball, how big would Earth be?
 - Jupiter: 10 mm
 - Earth: 1 mm
- Geocentric Model
 - According to Plato, Earth was at the center of the universe. The stars and planets were carried around the Earth on spheres of circles, arranged in the order (outwards from the

Answers For Plato Web Earth Space

Marshall William Fishwick



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Table of Contents Answers For Plato Web Earth Space

1. Understanding the eBook Answers For Plato Web Earth Space
 - The Rise of Digital Reading Answers For Plato Web Earth Space
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Plato Web Earth Space
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Plato Web Earth Space
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Plato Web Earth Space
 - Personalized Recommendations
 - Answers For Plato Web Earth Space User Reviews and Ratings
 - Answers For Plato Web Earth Space and Bestseller Lists

5. Accessing Answers For Plato Web Earth Space Free and Paid eBooks
 - Answers For Plato Web Earth Space Public Domain eBooks
 - Answers For Plato Web Earth Space eBook Subscription Services
 - Answers For Plato Web Earth Space Budget-Friendly Options
6. Navigating Answers For Plato Web Earth Space eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Plato Web Earth Space Compatibility with Devices
 - Answers For Plato Web Earth Space Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Plato Web Earth Space
 - Highlighting and Note-Taking Answers For Plato Web Earth Space
 - Interactive Elements Answers For Plato Web Earth Space
8. Staying Engaged with Answers For Plato Web Earth Space
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Plato Web Earth Space
9. Balancing eBooks and Physical Books Answers For Plato Web Earth Space
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Plato Web Earth Space
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Plato Web Earth Space
 - Setting Reading Goals Answers For Plato Web Earth Space
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Plato Web Earth Space
 - Fact-Checking eBook Content of Answers For Plato Web Earth Space
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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