

Tasks – Earth, Movements and their consequences, Maps, Earth's survey

Match the following.

Set 1

A = seasons	1 = star
B = vegetation zones	2 = Copernicus
C = Sun	3 = revolution
D = Heliocentric model	4 = globular shape
E = centrifugal force	5 = rotation
F = ecliptic	6 = ellipse

Set 2

A = rotation	1 = vegetation zones
B = revolution	2 = 15 billion years
C = Big Bang	3 = orbital plane
D = globular shape	4 = seasons
E = 15 degrees of longitude	5 = days and nights
F = ecliptic	6 = 1 hour

Cross out a term which does not belong to the other terms logically.

Andromeda – Uranus – Jupiter – Saturn – Neptune

Comets – aliens – Asteroids – Moons – Stars

shortest day – shortest night – northern hemisphere – winter solstice

symbols – scale – legend – 3D – map

Questions...

- The Sun rises sooner in:
 - Anchorage (Alaska, USA) or NYC (USA).
 - Cairo (Egypt) or Buenos Aires (Argentina).
 - Calcutta (India) or Manila (Philippines).
- How old is our planet?
- What is the angle between the Equator and the Earth's axis?
- How many degrees of latitude do we cross when we are coming from the Equator to the Tropic of Capricorn?
- Explain why we cannot see the Dark side of the Moon.

Decide if the following statement is true. If not, correct it.

- „Copernicus claimed that the Earth is the centre of the Universe.“
- „The shape of most celestial bodies (cosmic matters) is globular.“
- „Spheroid is the mathematical model of the Earth.“
- „Perihelion means the farthest distance of the Earth from the Sun.“
- „If the Earth is in aphelion, it's winter season in southern hemisphere.“
- „Angles and areas are distorted in equidistant projection.“

Calculations.

- Ø The time in London (0°) is 16:00 (4:00 p.m.). What is the local time in
 - Oradea, Romania (22°E)?
 - the Etna summit (15°E)?
 - New Orleans, USA (90°W)
- Ø What is the time in Denver (USA) if it's noon (12:00) in London and the time difference is 7 hours.
- Ø What is the date and time in Manaus when it's 15:00 (3:00 p.m.), on July 2 in Kabul if you know that the time difference between Brazil and Afghanistan is 8 hours?