

REVISION – Planeth Earth, Practical Geography

Earth as a cosmic matter

1. How and when was the universe created (the most common theory)?
2. What is the Milky Way?
3. Name all the 8 planets of the Solar System in hierarchy.
4. Why is not Pluto the planet anymore?
5. What is the name of the comet which occurs in the Solar System in 76 years period?
6. What is the reason of the globular shape of all cosmic matter?
7. When and where did people start to think about globular shape of the Earth?
8. Draw and describe Aristotle's geocentric model.
9. Draw and describe Copernican heliocentric model.
10. Give three Kepler's laws. What are they about?
11. Why is Isaac Newton famous for?

Shape, dimensions and motions of the Earth

12. What does the centrifugal force cause with the shape of the Earth?
13. How do we know the Earth has globular shape?
14. Name and describe three basic models of the Earth's shape.
15. Draw Spheroid and mark basic dimension of the Earth.
16. What are 2 basic motions of the Earth?
17. Describe the Earth's Revolution around the Sun.
18. Tell what is the difference between perihelion and aphelion.
19. Explain these terms:
 - a. summer and winter solstice
 - b. spring and autumn equinox
20. What is the way in which the Earth rotates around its axis?
21. What is the time of the Earth's Rotation
 - a) rotation 360° – sidereal day
 - b) rotation from noon to noon – solar day?
22. How many time zones do we have on the Earth?
23. What is a CET, EET, GMT, seasonal time?
24. Are there places in the world with the equal day length all year round?
25. Where is the Sun rising sooner, in Moscow or in London?

Consequences of the Earth's Shape and Motions

26. Explain the main consequence of the Earth's globular shape.
27. Name two consequences of the Earth's Revolution around the Sun.
28. Name three consequences of the Earth's Rotation around its own Axis.
29. What does Coriolis force cause?
30. Why can we see only the near side of the moon?
31. Draw and label four moon phases.
32. Draw mechanism of the spring and the neap tide.
33. Give ways how people use Tides.

Coordinates

34. Define Geographic Coordinate system.
35. Name all the orientation lines of the Earth with values (main parallels and meridians).
36. What is the reference line or plane for latitude, longitude and altitude?
37. What famous place does the Prime Meridian pass?

Maps – the Cartographic projections

38. Define the term cartography.
39. Define the term map.
40. Who are maps used by?
41. Why are maps generalized?
42. Explain 3 cartographic projections according to the distortion.
43. Which projection is used for navigation?
44. What projection is Mercator projection?

Maps – the Types of the Maps

45. What is the difference between plans and maps?
46. Define the map scale.
47. What kind of map scale must be on the map? (numeric or graphic)
48. Give 3 groups of map types according to the map scale.
49. What is a topographic content of the map?
50. What is a thematic content of the map?
51. What is a legend?

Earth Survey and GPS

52. What is the Earth Survey?
53. Give the methods of the Earth Survey?
54. What is the advantage (+) of the air picture in comparison with the satellite picture and vice-versa.
55. Where and how are information from the Earth Survey used?
56. What is GPS?
57. What can GPS receiver determine?