

Chapter 1 Practice Test Answers

1. Areas of equal elevation
2. Hypothesis
3. Manipulated variable
4. Index contour
5. Elevation
6. Elevation
7. Prime Meridian
8. Equator
9. Scale
10. **Variable** – both the manipulated and responding variables fall under the general category of a variable. Manipulated Variable (aka independent variable) is the variable you purposely change, while the Responding Variable (aka dependent variable) changes as a result of the manipulation.
11. Lithosphere
12. Inferring
13. Contour interval
14. Plateau
15. Relief
16. North and south (up and down), but measures degrees East and West
17. 180° for each hemisphere, 360° for the circumference
18. Biosphere
19. The diagram was accidentally numbered, so there is not an answer.

20. Scientific Inquiry (aka scientific method)- you would use your scientific skills to conduct the inquiry process
21. Reading the diagram should probably begin with posing questions, since the goal of scientific inquiry is to answer scientific questions about the natural world. However, there are multiple ways to begin, such as making an observation, then posing a scientific question. There's no one correct way to do this.
22. Often, a scientific inquiry suggests new questions, which lead to the formation of new hypotheses and experiments, and so the inquiry continues. The inquiry is a **process** and may not have an "end" until all possibilities have been tested and exhausted, and results stand up to the test of time (inquiry yields results that are both accurate and reproducible).
23. Energy from the Sun.
24. You should include each "sphere" of the Earth system in your answer. For example, Atmosphere provides oxygen and precipitation to grow crops for food, etc.
25. 20m
26. 240m
27. Mountain – the contour lines are close together, indicating the steepness of the landform and the elevation is 240m. Also, the contour lines show that there is a peak.
28. There would be no way to tell which variable caused the results. If you manipulated each variable at a time during your scientific inquiry, then you can see the direct correlation between the single manipulated variable and the response to the variable.