

Answer Key  
Rocks and Minerals Practice

- |                     |   |  |
|---------------------|---|--|
| 1. <u><b>B</b></u>  | 37. <u><b>D</b></u>   | 49. — pencil lead —<br>lubricants —<br>Graphite is a<br>component in<br>composite materials<br>in cars, aircraft, and<br>sports equipment.   |
| 2. <u><b>B</b></u>  | 38. <u><b>C</b></u>   |  |
| 3. <u><b>B</b></u>  | 39. <u><b>B</b></u>   |  |
| 4. <u><b>D</b></u>  | 40. <u><b>A</b></u>   |  |
| 5. <u><b>B</b></u>  | 41. <u><b>D</b></u>   |  |
| 6. <u><b>D</b></u>  | 42. <u><b>A</b></u>   | 50. Granite because<br>granite is composed<br>mainly of quartz<br>and feldspar that are<br>resistant to abrasion<br>because of their<br>hardness (7 and 6,<br>respectively), while<br>marble is made of<br>calcite, which is<br>softer (hardness of<br>3). |
| 7. <u><b>B</b></u>  | 43. <u><b>A</b></u>   |  |
| 8. <u><b>D</b></u>  | 44. Relative depth: —<br>greater depth —<br>deeper<br>Relative<br>temperature: —<br>higher temperature<br>— hotter  |  |
| 9. <u><b>D</b></u>  | 45. —The shale and<br>sandstone were<br>metamorphosed by<br>the heat of the lava.<br>—The lava flow<br>heated the rocks<br>that it flowed over.<br>—Contact<br>metamorphism<br>changed the top<br>layer of formation <i>A</i><br>. —Heat and pressure<br>formed hornfels and<br>quartzite.<br>—metamorpho-<br>m/recrystallization |  |
| 10. <u><b>D</b></u> |   |  |
| 11. <u><b>D</b></u> |   |  |
| 12. <u><b>B</b></u> |   |  |
| 13. <u><b>B</b></u> |   |  |
| 14. <u><b>D</b></u> |   |  |
| 15. <u><b>D</b></u> |   |  |
| 16. <u><b>C</b></u> |   |  |
| 17. <u><b>B</b></u> |   |  |
| 18. <u><b>C</b></u> |   |  |
| 19. <u><b>C</b></u> |   |  |
| 20. <u><b>D</b></u> |   |  |
| 21. <u><b>D</b></u> |   |  |
| 22. <u><b>A</b></u> |   |  |
| 23. <u><b>A</b></u> |   |  |
| 24. <u><b>B</b></u> |   |  |
| 25. <u><b>D</b></u> | 46. Rock <i>A</i> – shale;<br>Rock <i>B</i> – gneiss;<br>Rock <i>C</i> – granite or<br>diorite or pegmatite   |  |
| 26. <u><b>B</b></u> |   |  |
| 27. <u><b>C</b></u> |   |  |
| 28. <u><b>C</b></u> |   |  |
| 29. <u><b>C</b></u> | 47. Allow credit for any<br>value from 0.0004<br>to 0.006 cm.   |  |
| 30. <u><b>D</b></u> |   |  |
| 31. <u><b>D</b></u> | 48. gneiss  |  |
| 32. <u><b>A</b></u> |   |  |
| 33. <u><b>A</b></u> |   |  |
| 34. <u><b>A</b></u> |   |  |
| 35. <u><b>C</b></u> |   |  |
| 36. <u><b>C</b></u> |   |  |