

Geologic Mapping Answer Sheet – PA SE Regionals

Name(s): _____ **ANSWER KEY** _____

School: _____

Team: _____

Write your answers clearly. If it is unreadable, it is incorrect.

2pts each

1. E	2. E	3. A	4. B	5. E
6. A	7. B	8. E	9. D	10. C
11. D	12. C	13. B	14. B	15. B
16. F	17. B	18. B	19. E	20. D

21. 312m (5pts)

22. Trend: 123 degrees (5pts) Plunge: 18 degrees (5pts)

2pts each

23. Disconformity	24. Angular Unconformity
25. Nonconformity	26. The Grand Canyon

27-32, 1pt each

33-38, 2pts each

27. Divergent	28. Transform	29. Divergent	30. Convergent
31. Convergent	32. Mid-Atlantic Ridge	33. Strike-Slip	34. D
35. E	36. N	37. A	38. Nazca Plate

39. **Youngest** - N , F , C , H , O , I , B , J ,

 M , A , L , D , K , E , G - **Oldest**

(0.5pts per correct event, 0.5pts extra if all correct, 8pts max if all correct)

**Use your judgment. If one event makes everything else wrong, obviously don't make every single one wrong. **

40. **Oldest** - 2 , 1 , 3 - **Youngest**

(0.5pts per correct event, 0.5pts extra if all correct, 2pts max if all correct)

41. Normal Fault (1pt)	42. Normal Fault (1pt)	43. G (1pt)
44. Dike (2pts)	45. Stock (or Intrusion) (2pts)	46. I (2pts)

47. 16:30 (or 4:30PM) **(5pts)**

48. Equator **(2pts)**

49. International Date Line **(2pts)**

50. 2min 30sec or 2'30" **(3pts)**

51. 2,000m **(3pts)**

52. 200ft (2pts)	53. 40ft (2pts)
54. Any value from 10601 ft to 10639 ft (2pts)	55. 10909ft (2pts)
56. East (2pts)	57. North (2pts)
58. Line Creek (2pts)	59. 4000 ft (3pts)

60. 306-308mi (Any answer within given answer is correct) (5pts)

There are Two Possible Answers. Either one will work

3pts each

61. Slump	62. Earthflow
63. Creep	64. Sinkhole

65. SE (2pts)	66. Cherry Valley (2pts)	67. E (2pts)
68. D (4pts)	69. Trellis (3pts)	70. Delaware (2pts)

2pts each

71. Principle of Uniformitarianism
72. Principle of Baked Contacts
73. Principle of Fossil (or Faunal) Succession
74. Principle of Uniformitarianism
75. Principle of Original Continuity
76. Principle of Superposition
77. Principle of Original Horizontality

78. Strike: 271 or 091 degrees (2pts)

True Dip: Any Value from 36-37 degrees, S or SW Dip Direction (5pts)

79. Any Value from 330-350m (7pts)

2pts each

80. D	81. A
82. B	83. A

84. Plunging Syncline (3pts)

85. Plunging Anticline (3pts)

86. Mmc (Mmo also accepted b/c of map quality) (2pts)

87. Silurian (2pts)

88. Normal Fault (2pts)

89. North side (1pt)