

AP Stats  
Chap 5-7  
Practice Test  
SOLUTIONS

1. B      2. B      3. B      4. D      5. C  
6. D      7. B      8. D      9. B      10. A      11. D      12. B  
13. D      14. C      15. E      16. B      17. A      18. A      19. D  
20. D      21. C      22. C      23. B      24. A      25. E  
26. C      27. A      28. D      29. E      30. B      31. C      32. A  
33. E      34. D      35. D

36. weeks worked

37. -0.97

38. no, the residual plot is curved

39. predicted Salary =  $8599.28 (\text{GPA}) + 22373.09$

40. Yes, the scatterplot is straight enough, we are using two quantitative variables, there are no outliers, and the residual plot shows scatter.

41. (predicted)  $\$50751 + (\text{residual}) - 1880 = \$48,871$

42. N      43. C      44. P      45. N      46. O

47. disagree – association does not mean cause and effect

48. draw the LSRL

49. linear, moderately strong, and negative. there is one potential outlier in the y.  
overall, children seem to crawl earlier when the temperature is higher.

50. the model suggests that on average, babies crawl .08 weeks earlier for every 1  
degree higher the temperature is.

51. the model predicts that at a temperature of 0 degrees, babies would crawl at  
an average of 36 weeks old.

52. 49% of the variability in when the babies first crawled can be explained by the  
variation in the temperatures.

53. the babies crawled earlier (at a younger age) than the model predicted.