### MULTIPLE CHOICE

1. ANS: B  
   REF: p. 447  
   OBJ: TYPE: WWW
2. ANS: A  
   REF: p. 455
3. ANS: D  
   REF: p. 452
4. ANS: B  
   REF: p. 452
5. ANS: A  
   REF: p. 453
6. ANS: D  
   REF: p. 447
7. ANS: C  
   REF: p. 461  
   OBJ: TYPE: WWW
8. ANS: A  
   REF: p. 461
9. ANS: B  
   REF: p. 401  
   OBJ: TYPE: WWW
10. ANS: A  
    REF: p. 404  
    OBJ: TYPE: WWW
11. ANS: A  
    REF: p. 411
12. ANS: A  
    REF: p. 420
13. ANS: A  
    REF: p. 426
14. ANS: B  
    REF: p. 408
15. ANS: B  
    REF: p. 347
16. ANS: B  
    REF: p. 350
17. ANS: A  
    REF: p. 347
18. ANS: A  
    REF: p. 357
19. ANS: B  
    REF: p. 350  
    OBJ: TYPE: WWW
20. ANS: A  
    REF: p. 310
21. ANS: C  
    REF: p. 313
22. ANS: A  
    REF: p. 328  
    OBJ: TYPE: WWW
23. ANS: A  
    REF: p. 316
24. ANS: A  
    REF: p. 330
25. ANS: B  
    REF: p. 321
26. ANS: D  
    REF: p. 282  
    OBJ: TYPE: WWW
27. ANS: A  
    REF: p. 282  
    OBJ: TYPE: WWW
28. ANS: B  
    REF: p. 284
29. ANS: B  
    REF: p. 299
30. ANS: A
31. ANS: D
SHORT ANSWER

32. ANS:

<table>
<thead>
<tr>
<th>Source</th>
<th>SS</th>
<th>df</th>
<th>MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between Treatments</td>
<td>26</td>
<td>2</td>
<td>13</td>
</tr>
<tr>
<td>Within Treatments</td>
<td>18</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Between Subjects</td>
<td>14</td>
<td>2</td>
<td></td>
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<tr>
<td>Error</td>
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<td>4</td>
<td>1</td>
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<tr>
<td>Total</td>
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</tbody>
</table>

OBJ: TYPE: WWW

33. ANS:

a. ANOVA Table:

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<tr>
<th>Source</th>
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<th>df</th>
<th>MS</th>
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</thead>
<tbody>
<tr>
<td>Between Treatments</td>
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<tr>
<td>Within Treatments</td>
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<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>94</td>
<td>14</td>
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</tr>
</tbody>
</table>

With * = .05 and df = 2, 12 the critical value is 3.88. Reject \(H_0\) and conclude that the drug has a significant effect on activity level.

b. For these data, \(r^2 = 70/94 = 0.74\).

34. ANS:

a. For these data \(M_D = -3, s^2 = 9\) and \(t(8) = -3.00\). Reject \(H_0\) and conclude that the relaxation training has a significant effect.

b. For these data, \(r^2 = 9/17 = 0.53\).

35. ANS:

a. \(H_0: \mu_1 - \mu_2 = 0\). For these data the pooled variance is 24, the standard error is 2.65, and the \(t\) statistic is \(t(12) = 3.02\). Reject \(H_0\). Lower serotonin levels cause an increase in aggression.

b. Cohen's \(d = 8/\sqrt{24} = 1.63\).