1. 6 #14	6. 8 #14	11. 2 14-2-G	16. 3 6-3-G
2 #12	4 #10	3 12-2-G	6 8-3-G
2 #10	4 #12	2 14-3-G	3 10-3-G
2 #14	7 #6	3 12-3-G	6 12-3-G
3 #8	9 #8	6 clamps	6 clamps

2. 12 #12	7. 3 #8	12. 7 14-3-G	17. 2 6-2-G
5 #6	5 #12	2 14-2-G	7 8-2-G
4 #8	9 #14	6 10-2-G	7 10-2-G
2 #10	7 #10	4 10-3-G	7 12-2-G
10 #14	11 #6	10 clamps	6 clamps

3. 10 #6	8. 6 #12	13. 6 12-2-G	18. 6 6-3-G
12 #14	8 #10	2 14-2-G	2 8-3-G
10 #12	4 #8	6 10-2-G	6 10-3-G
8 #10	2 #6	2 10-3-G	2 14-2-G
6 #8	10 #14	5 clamps	7 clamps

4. 4 #8	9. 3 #10	14. 4 14-2-G	19. 1 6-2-G
18 #10	3 #6	6 14-3-G	1 8-3-G
12 #6	6 #14	8 12-2-G	3 10-2-G
22 #14	6 #8	7 12-3-G	4 14-3-G
6 #12	1 #12	8 clamps	4 clamps

5. 4 #6	10. 10 #10	15. 1 10-2-G	20. 4 10-3-G
38 #12	20 #14	9 10-3-G	7 10-2-G
16 #14	10 #6	2 8-2-G	2 12-3-G
8 #10	20 #12	6 8-3-G	6 14-3-G
16 #8	10 #8	4 clamps	11 clamps

Find the total cubic inches needed in each of these boxes. There are no loops and no devices. Enter the total in each box above. Try to do this calculator work without reference to the NEC® 314.16B table. It should be memorized. This worksheet will help with that memory development.

Example: Problem #1 on the calculator becomes:

6 x 2 + 2 x 2.25 + 2 x 2.5 + 2 x 2 + 3 x 3 = read answer 34.5 cubic inches.

Clamps count as cubic inches of the largest conductor in cable held by clamps.