**Ch. 8 “Foundations” homework questions**

Instructions:

Create space in the Word document below, and type your answers using complete sentences. When you are finished, submit your work as an email attachment. The page numbers refer to the Ch. 8 reading assignment.

(10 questions, 100 points possible)

1. Define the following terms: (p. 192)
2. Dead load
3. Live load
4. Wind load
5. Earthquake (seismic) load
6. Finish this sentence: “A primary objective in foundation design is to minimize \_\_\_\_\_\_\_\_\_\_\_\_\_\_. (p. 193)
7. What is the difference between *uniform settlement* and *differential settlement*? (p. 192)
8. Define the following terms: (p. 193 & 194)
9. Soil
10. Rock
11. Gravel
12. Sand
13. Silt
14. Clay
15. Organic soils
16. True or False? “Rock, gravels, sands, and many silts tend to be stable soils”. (p. 194)
17. Why isn’t *clay* a suitable soil for building foundations? (p. 194)
18. When would you use each of the following foundations for a house? (Figure 8.5, p. 195)
19. Slab on grade
20. Crawlspace
21. Basement
22. Answer the following questions from Figure 8.6: (p. 196)
23. How close do you insert L-shaped anchor bolts along the top of the foundation wall?
24. What is the purpose of the perimeter drain?
25. What is the purpose of the 2x4 perimeter key?
26. How thick (in inches) do you make a floor slab?
27. What is *engineered fill*? (p. 198)
28. In building a slab-on-grade, what is the purpose of the following? (Figure 8.30 and p. 207)
29. 4” gravel base
30. Moisture barrier
31. Welded wire fabric
32. Concrete