Section I — Percentages

212

1. What is 24% of 42.5?

2. What is 8% of 356.25?

3. What is 96% of 380?

4. What is 32% of 1140?

5. 43 is what percent of 1075?

6. What is 12% of 118.75?

7. 17 is what percent of 85?

8. What is 48% of 53.125?

Section II — Blueprint Calculations

9. Shape A, Scale = 32, baseboard job.

10. Shape A, Scale = 32, pipe job.

11. Shape A, Scale = 36, pipe job.

12. Shape F, Scale = 15, carpet job.

13. Shape G, Scale = 50, baseboard job.

14. Shape L, Scale = 24, caulking job.

15. Shape M, Scale = 32, paint job.

16. Shape Q, Scale = 30, panel job.

Section III — Carbon Footprint

212

17. How many mmBTUs are generated by running a ET 199-H for 6 hours?

18. How many pounds of CO2 are released by burning kerosene for 8 hours in a CGa-7?

19. How many pounds of CO2 are released by burning 401 pounds of Hemlock?

20. Room A's TSA, made of Timber, walnut, if inside is 79°F and outside is 87°F?

21. How many mmBTUs are generated by running a CGa-25 for 2 days?

22. How many mmBTUs are generated by running a CGa-4 for 6 weeks?

23. Ammonia, 238oF cycle, 1359 (lb/hr) flowrate, outside is 47°F, inside 63°F?

24. How many mmBTUs are generated by running a GV90+3 for 5 days?

Section IV — Green Building

212

25. How many pounds of CO2 are released by burning 236 pounds of Cottonwood?

26. How many mmBTUs are generated by burning 91 pounds of Cottonwood?

27. How many mmBTUs are generated by running a EG-35 for 5 days?

28. Room A's Wall #3, made of Asbestos-cement, if inside is 56°F and outside is 34°F?

29. How many pounds of CO2 are released by burning 358 pounds of Red Oak?

30. How many pounds of CO2 are released by burning crude oil (No. 1) for 4 weeks in a CGi-5?

31. How many mmBTUs are generated by running a CGa-4 for 10 hours?

32. How many mmBTUs are generated by burning 411 pounds of Norway Pine?