Section I — Percentages

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1. 97 is what percent of 121.25?

2. 41 is what percent of 82?

3. What is 32% of 89.0625?

4. 71 is what percent of 142?

5. 23 is what percent of 92?

6. 93 is what percent of 372?

7. 93 is 8% of what number?

8. 41 is 8% of what number?

Section II — Blueprint Calculations

9. Shape C, Scale = 35, paint job.

10. Shape D, Scale = 24, pipe job.

11. Shape E, Scale = 15, molding job.

12. Shape H, Scale = 8, tile job.

13. Shape F, Scale = 8, tile job.

14. Shape R, Scale = 30, baseboard job.

15. Shape K, Scale = 35, brick job.

16. Shape O, Scale = 36, baseboard job.

Section III — Carbon Footprint

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17. Ammonia, 32oF cycle, 1162 (lb/hr) flowrate, outside is 83°F, inside 69°F?

18. How many pounds of CO2 are released by burning motor gasoline for 6 weeks in a CGi-25?

19. How many pounds of CO2 are released by burning Bituminous coal for 1 months in a EVG 299?

20. How many pounds of CO2 are released by burning kerosene for 2 hours in a GV90+6?

21. How many mmBTUs are generated by burning 150 pounds of East.Hophornbeam?

22. How many pounds of CO2 are released by burning 193 pounds of Balsam Fir?

23. Room C's Wall #1, made of Plaster, wood lath, if inside is 63°F and outside is 54°F?

24. Room A's Wall #3, made of Ground or soil, moist area, if inside is 65°F and outside is 15°F?

Section IV — Green Building

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25. Room C's Ceiling, made of Brick dense, if inside is 62°F and outside is 18°F?

26. How many pounds of CO2 are released by burning Anthracite coal for 3 hours in a EG-65?

27. How many mmBTUs are generated by running a ET 199-H for 2 months?

28. Room A's Wall #3, made of Cork board, if inside is 73°F and outside is 43°F?

29. How many mmBTUs are generated by burning 388 pounds of Elm?

30. How many pounds of CO2 are released by burning 374 pounds of Cottonwood?

31. Room A's Wall #1, made of Polycarbonate, if inside is 74°F and outside is 105°F?

32. How many mmBTUs are generated by running a CGi-5 for 4 weeks?