Section I — Percentages

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1. 51 is what percent of 1020?

5. 89 is 72% of what number?

2. What is 48% of 111.25?

6. 17 is 15% of what number?

3. 87 is what percent of 1740?

7. 13 is 12% of what number?

4. 13 is what percent of 65?

8. 67 is what percent of 418.75?

Section II — Blueprint Calculations

- 9. Shape B, Scale = 24, caulking job.
- 13. Shape I, Scale = 30, brick job.

- 10. Shape A, Scale = 8, paint job.
- 14. Shape K, Scale = 24, pipe job.

- 11. Shape A, Scale = 8, molding job.
- 15. Shape M, Scale = 15, paint job.

- 12. Shape F, Scale = 50, paint job.
- 16. Shape Q, Scale = 32, wire job.

Section III — Carbon Footprint

216

How many mmBTUs are generated by running a CGa-8 for 2 months?

21 Room B's Wall #3, made of Timber, red beech, if inside is 71°F and outside is 101°F?

Methyl Alcohol cycle, 1025 (lb/hr) flowrate, outside is side is 54°F, inside 89°F?

22 Acetone cycle, 965 (lb/hr) flowrate, outside is 88°F, inside 89°F?

19. Glycerine cycle, 1326 (lb/hr) flowrate, outside is 46°F, inside 46°F? 23How many pounds of CO2 are released by burning kerosene for 3 days in a EVG 220?

How many pounds of CO2 are released by burning 261 pounds of Black Spruce?

24Room B's Wall #1, made of Wood across the grain, yellow pine, if inside is 62°F and outside is 94°F?

Section IV — Green Building

216

How many mmBTUs are generated by running a EG-30 for 1 days?

29Room C's Wall #2, made of Silicon oil, if inside is 55°F and outside is 23°F?

How many pounds of CO2 are released by burning 138 pounds of Yellow Birch?

30How many pounds of CO2 are released by burning 225 pounds of Sugar Maple?

27. Room B's Wall #1, made of Glass, Pearls, dry, if inside is 84°F and outside is 103°F?

31 How many pounds of CO2 are released by burning 91 pounds of White Pine?

- **28.** Room A's Floor, made of Hardwoods (oak, maple..), if inside is 78°F and outside is 21°F?
- **32**How many pounds of CO2 are released by burning 168 pounds of Tamarack?