Section I — Percentages

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1. 71 is what percent of 284?

5. 73 is what percent of 114.0625?

2. 43 is 36% of what number?

6. 91 is what percent of 284.375?

3. 83 is 24% of what number?

7. 93 is what percent of 1860?

4. 51 is 24% of what number?

8. What is 72% of 58.75?

Section II — Blueprint Calculations

- 9. Shape D, Scale = 50, pipe job.
- 13. Shape I, Scale = 30, paint job.

- 10. Shape A, Scale = 8, caulking job.
- 14. Shape L, Scale = 30, baseboard job.

- 11. Shape D, Scale = 36, caulking job.
- 15. Shape K, Scale = 15, molding job.

- 12. Shape I, Scale = 30, molding job.
- 16.Shape P, Scale = 8, carpet job.

Section III — Carbon Footprint

221

17. How many pounds of CO2 are released by burning 58 pounds of Black Ash?

21 Room A's TSA, made of Straw slab insulation, compressed, if inside is 74°F and outside is 42°F?

How many mmBTUs are generated by running a EG-45 for 7 days?

22How many mmBTUs are generated by running a ET 150-C for 9 days?

How many mmBTUs are generated by burning 194 pounds of East.Hophornbeam?How many mmBTUs are generated by burning inside 79°F?

Sodium hydrate cycle, 682 (lb/hr) flowrate, outside is 76°F, inside 83°F?

24Room C's Wall #1, made of Plaster, sand, if inside is 85°F and outside is 10°F?

Section IV — Green Building

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How many mmBTUs are generated by running a CGi-5 for 10 days?

29 How many mmBTUs are generated by burning 191 pounds of Yellow Birch?

Room B's 4 Walls, made of Rubber, cellular, if inside is 84°F and outside is 89°F?

30How many pounds of CO2 are released by burning 145 pounds of Red Maple?

27. Room C's Wall #1, made of Hastelloy C, if inside is **31** Room B's Ceiling, made of Glass, Pearls, dry, if 85°F and outside is 90°F? inside is 83°F and outside is 81°F?

How many mmBTUs are generated by running a CGa-6 for 6 days?

32 How many mmBTUs are generated by running a AB-155C for 10 weeks?