Section I — Percentages

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What is 8% of 212? 1.

5. What is 72% of 395?

2. 41 is 64% of what number?

6. What is 12% of 114.0625?

3. 51 is 72% of what number? 7. 47 is 15% of what number?

4. 87 is what percent of 543.75? 8. 97 is 96% of what number?

Section II — Blueprint Calculations

- 9. Shape C, Scale = 30, wire job.
- 13. Shape F, Scale = 36, wire job.

- 10. Shape E, Scale = 15, panel job.
- 14. Shape K, Scale = 15, brick job.

- 11. Shape B, Scale = 48, panel job.
- 15. Shape L, Scale = 35, wire job.

- 12. Shape J, Scale = 35, carpet job.
- 16.Shape P, Scale = 50, panel job.

Section III — Carbon Footprint

217

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

21 How many pounds of CO2 are released by burning motor gasoline for 10 weeks in a AB-80C?

18. Ammonia, 212oF cycle, 760 (lb/hr) flowrate, outside is 80°F, inside 46°F? **22**Carbon Tetrachloride cycle, 1425 (lb/hr) flowrate, outside is 74°F, inside 68°F?

Propane, 32oF cycle, 1394 (lb/hr) flowrate, outside **23**How many mmBTUs are generated by running a is 60°F, inside 86°F? EG-30 for 10 months?

20. Glycerine cycle, 1299 (lb/hr) flowrate, outside is 42°F, inside 47°F?

24 How many pounds of CO2 are released by burning natural gas for 1 weeks in a CGi-25?

Section IV — Green Building

217

25. Room C's 4 Walls, made of Wood across the grain, 29Room A's Wall #1, made of Pitch, if inside is 82°F yellow pine, if inside is 71°F and outside is 42°F? and outside is 3°F?

Ether cycle, 803 (lb/hr) flowrate, outside is 45°F, inside 54°F? 30How many mmBTUs are generated by running a CGi-6 for 2 weeks?

27. How many mmBTUs are generated by running a GG-50 for 9 weeks? 31 Room C's TSA, made of Polystyrol, if inside is 58°F and outside is 35°F?

How many pounds of CO2 are released by burning diesel fuel for 4 weeks in a GV90+3?

32 How many pounds of CO2 are released by burning motor gasoline for 1 hours in a CGi-7?