Section I — Percentages

207

1. 51 is 24% of what number?

5. 7 is 24% of what number?

2. 37 is 64% of what number?

6. 67 is what percent of 1340?

3. What is 48% of 28?

7. 91 is what percent of 227.5?

4. 87 is 48% of what number?

8. What is 36% of 295?

Section II — Blueprint Calculations

- 9. Shape E, Scale = 15, carpet job.
- 13. Shape I, Scale = 30, tile job.

- 10. Shape C, Scale = 8, carpet job.
- 14. Shape M, Scale = 15, brick job.

- 11. Shape E, Scale = 32, caulking job.
- 15. Shape M, Scale = 36, molding job.

- 12. Shape H, Scale = 24, brick job.
- 16. Shape N, Scale = 35, caulking job.

Section III — Carbon Footprint

207

17. Room C's TSA, made of Plastics, foamed , if inside **21** Room B's Wall #1, made of Mineral wool insulation materials, if inside is 77°F and outside is 101°F?

18. Alcohol, ethyl 32oF (ethanol) cycle, 1468 (lb/hr) flowrate, outside is 83°F, inside 52°F?

Ether cycle, 686 (lb/hr) flowrate, outside is 42°F, inside 56°F?

Room A's Ceiling, made of Fiber hardboard, if inside is 73°F and outside is 68°F?Propane, 32oF cycle, 1209 (lb/hr) flowrate, outside is 43°F, inside 84°F?

How many pounds of CO2 are released by burning 395 pounds of Norway Pine?

Decane cycle, 513 (lb/hr) flowrate, outside is 74°F, inside 84°F?

Section IV — Green Building

207

- **25.** Carbon Tetrachloride cycle, 748 (lb/hr) flowrate, outside is 70°F, inside 59°F?
 - 29How many mmBTUs are generated by burning 334 pounds of White Oak?

How many mmBTUs are generated by running a AB-80H for 6 hours?

30Room B's Wall #1, made of Timber, walnut, if inside is 73°F and outside is 1°F?

27. How many pounds of CO2 are released by burning Anthracite coal for 3 hours in a CGi-5?

31 How many pounds of CO2 are released by burning motor gasoline for 5 weeks in a EVG 299?

How many mmBTUs are generated by running a ET 110-H for 10 days?

32Sodium hydrate cycle, 1098 (lb/hr) flowrate, outside is 69°F, inside 84°F?