Section I — Percentages

220

1. 13 is what percent of 16.25?

5. 73 is what percent of 456.25?

2. 67 is what percent of 268?

6. 53 is what percent of 265?

3. What is 64% of 68?

7. 17 is 15% of what number?

4. What is 12% of 142.5?

8. 91 is 72% of what number?

Section II — Blueprint Calculations

9. Shape D, Scale = 32, molding job. 13.Shape I, Scale = 8, pipe job.

10. Shape D, Scale = 24, molding job. 14. Shape R, Scale = 35, caulking job.

11. Shape B, Scale = 24, wire job. 15. Shape L, Scale = 50, pipe job.

12. Shape I, Scale = 15, paint job. 16. Shape N, Scale = 48, brick job.

Section III — Carbon Footprint

220

17. How many pounds of CO2 are released by burning 158 pounds of Apple?

21 Room C's Wall #3, made of Ground or soil, very dry area, if inside is 68°F and outside is 20°F?

How many mmBTUs are generated by burning 95 **22**Hexane cycle, 602 (lb/hr) flowrate, outside is 51°F, pounds of Hackberry? inside 60°F?

How many mmBTUs are generated by running a ET 110-C for 4 hours?
23 How many pounds of CO2 are released by burning propane for 3 weeks in a CGi-25?

How many mmBTUs are generated by burning 487 pounds of Norway Pine?

24 How many pounds of CO2 are released by burning ing butane for 4 weeks in a EVG 110?

Section IV — Green Building

220

- 25. Room A's Floor, made of Asbestos mill board, if inside is 84°F and outside is 63°F?
- **29**Propane, 32oF cycle, 880 (lb/hr) flowrate, outside is 66°F, inside 87°F?

- 26. How many mmBTUs are generated by burning 259 pounds of Cherry?
- **30**How many pounds of CO2 are released by burning 284 pounds of Jack Pine?

27. Propyl Alcohol cycle, 922 (lb/hr) flowrate, outside 31 How many pounds of CO2 are released by burnis 84°F, inside 45°F? ing 164 pounds of White Ash?

- 28. ing 111 pounds of Apple?
- How many pounds of CO2 are released by burn- **32**Room A's Wall #2, made of Bitumen, if inside is 55°F and outside is 53°F?