Section I – Percentages 204

1. What is 8% of 222.5? 5. 53 is what percent of 212?

What is 8% of 28.75?

2.

6. 37 is what percent of 740?

3.41 is 64% of what number?7.What is 64% of 290.625?

4. 53 is 96% of what number? 8. 23 is 72% of what number?

Section II – Blueprint Calculations

9. Shape B, Scale = 8, panel job. 13.5	Shape J, Scale = 15, caulking job.
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10. Shape A, Scale = 8, brick job.

14.Shape M, Scale = 24, caulking job.

11. Shape A, Scale = 24, wire job. 15.Shape R, Scale = 30, tile job.

12. Shape J, Scale = 30, caulking job. 16.Shape Q, Scale = 32, molding job.

Section III — Carbon Footprint)04

- 17. How many pounds of CO2 are released by burn- **21**Room C's Floor, made of Timber, red beech, if ing 155 pounds of Balsam Fir?
 - inside is 83°F and outside is 20°F?

- 18. ing 176 pounds of Paper Birch?
- How many pounds of CO2 are released by burn- **22**Room B's Wall #2, made of Cork, re-granulated, if inside is 80°F and outside is 86°F?

- 19. How many mmBTUs are generated by burning 440 pounds of Boxelder?
- **23**Room A's Floor, made of Concrete, stone, if inside is 80°F and outside is 40°F?

20. How many mmBTUs are generated by burning 97 **24**How many pounds of CO2 are released by burnpounds of Black Ash? ing butane for 4 months in a EG-40?

Section IV - Green Building)04

- 25. How many mmBTUs are generated by running a **29**How many mmBTUs are generated by burning ET 110-H for 9 hours?
 - 115 pounds of Aspen?

- 26. How many mmBTUs are generated by burning 262 pounds of Beech?
- **30**Room B's TSA, made of Wood across the grain, white pine, if inside is 64°F and outside is 32°F?

- 27. How many pounds of CO2 are released by burning Bituminous coal for 5 weeks in a GV90+6?
 - 31 How many pounds of CO2 are released by burning 375 pounds of East.Hophornbeam?

28. Room B's Ceiling, made of Polyurethane foam, if **32**Dodecane cycle, 1148 (lb/hr) flowrate, outside is inside is 56°F and outside is 13°F? 80°F, inside 88°F?