## Section I – Percentages 206

1. 23 is what percent of 28.75? 5. What is 15% of 194?

2. What is 8% of 316?

6. 89 is what percent of 278.125?

**3**. 71 is 32% of what number? **7**. 71 is 15% of what number?

4. 71 is 36% of what number? 8. 57 is what percent of 356.25?

## Section II – Blueprint Calculations

	9.	Shape A, Scale = 24, brick job.	13.Shape I, Scale = 36, tile job.
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10. Shape B, Scale = 32, panel job.

14.Shape K, Scale = 30, wire job.

11. Shape E, Scale = 35, carpet job. 15.Shape M, Scale = 8, wire job.

12. Shape H, Scale = 36, brick job. 16.Shape Q, Scale = 32, baseboard job.

## Section III – Carbon Footprint 206

- 17. AB-155H for 8 months?
  - How many mmBTUs are generated by running a **21**Propylene Glycol cycle, 617 (lb/hr) flowrate, outside is 44°F, inside 82°F?

18. Ethylene glycol cycle, 727 (lb/hr) flowrate, outside **22**How many pounds of CO2 are released by burnis 68°F, inside 78°F? ing 228 pounds of Cottonwood?

19. Alcohol, ethyl 104oF (ethanol) cycle, 1351 (lb/hr) **23**How many pounds of CO2 are released by burnflowrate, outside is 45°F, inside 79°F? ing diesel fuel for 4 hours in a EG-55?

20. How many mmBTUs are generated by burning 61 **24**How many mmBTUs are generated by running a pounds of Norway Pine? CGi-5 for 5 weeks?

## Section IV - Green Building 206

- 25. How many pounds of CO2 are released by burn- **29**Propylene Glycol cycle, 817 (lb/hr) flowrate, outing heating oil (No. 2) for 7 months in a EVG 299?
  - side is 88°F, inside 44°F?

- 26. Dodecane cycle, 594 (lb/hr) flowrate, outside is 62°F, inside 63°F?
- **30**How many pounds of CO2 are released by burning propane for 7 months in a EG-30?

- 27. Hexane cycle, 1467 (lb/hr) flowrate, outside is 67°F, inside 87°F?
- **31**How many pounds of CO2 are released by burning 266 pounds of Yellow Birch?

28. How many pounds of CO2 are released by burn- **32**Room B's Ceiling, made of Ground or soil, dry ing 54 pounds of Jack Pine? area, if inside is 56°F and outside is 82°F?