

Section I – Percentages

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1. 7 is what percent of 28?
2. 7 is 48% of what number?
3. What is 36% of 151.5625?
4. What is 64% of 2425?
5. What is 12% of 185?
6. 71 is what percent of 88.75?
7. 73 is 48% of what number?
8. 93 is what percent of 465?

Section II – Blueprint Calculations

9. Shape A, Scale = 35, brick job. 13. Shape H, Scale = 24, panel job.
10. Shape A, Scale = 24, baseboard job. 14. Shape M, Scale = 48, brick job.
11. Shape C, Scale = 15, baseboard job. 15. Shape L, Scale = 8, paint job.
12. Shape H, Scale = 32, paint job. 16. Shape P, Scale = 30, panel job.

Section III – Carbon Footprint

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17. Room A's TSA, made of Polyurethane foam, if inside is 72°F and outside is 78°F?
- 21 Room A's Ceiling, made of Sheep wool, if inside is 76°F and outside is 82°F?
18. Propylene Glycol cycle, 1020 (lb/hr) flowrate, outside is 87°F, inside 43°F?
- 22 Room C's Wall #1, made of Concrete, lightweight, if inside is 63°F and outside is 86°F?
19. How many mmBTUs are generated by running a CGi-6 for 2 days?
- 23 Ammonia, 238oF cycle, 843 (lb/hr) flowrate, outside is 53°F, inside 59°F?
20. Methyl Alcohol cycle, 600 (lb/hr) flowrate, outside is 78°F, inside 85°F?
- 24 How many mmBTUs are generated by running a CGa-25 for 2 months?

Section IV – Green Building

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25. Sodium hydrate cycle, 848 (lb/hr) flowrate, outside is 79°F, inside 61°F?
26. Alcohol, methyl. 60 - 70oF cycle, 1260 (lb/hr) flowrate, outside is 64°F, inside 69°F?
27. Room C's Ceiling, made of Polyester, if inside is 60°F and outside is 54°F?
28. Room A's Wall #2, made of Brick, fire, if inside is 70°F and outside is 51°F?
29. Propylene Glycol cycle, 599 (lb/hr) flowrate, outside is 59°F, inside 77°F?
30. Sodium hydrate cycle, 791 (lb/hr) flowrate, outside is 73°F, inside 56°F?
31. How many pounds of CO₂ are released by burning butane for 7 weeks in a ET 199-C?
32. Propylene Glycol cycle, 746 (lb/hr) flowrate, outside is 59°F, inside 51°F?