

Fall 2009

Phys 201 – Due Tuesday, September 29

CLRC (Cummings, Laws, Redish, Cooney)

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Problems 2, 6, 15, 17, 18, 21, 22, 27, 29, 46, 50, 52, 55, 56, 57, 59

Answers to even-numbered problems (I do not have these worked out for the additional problems).

2a) 52.6 minutes

2b) 4.9%

6a) 495s

6b) 141s

6c) Clock B reads 198s

6d) $t_B = -245\text{s}$

18a) $V_{\text{dollhouse}} \sim 1.0 \text{ m}^3$

18b) $V_{\text{miniature}} \sim 6.0 \times 10^{-4} \text{ m}^3$

22) $1.3 \times 10^9 \text{ kg}$