

Homework #1

Due: 8/25

Show all work for full credit.

10 pts E [20 pts total]

**Name:** \_\_\_\_\_

1. Determine the total heat (BTUs) required to take a 25 lb block of ice that is held in a freezer at 18°F and convert it into steam at 220°F

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2. Determine the amount of heat (BTUs) released by a 260 ft<sup>2</sup> concrete wall that is 8 in thick that is warmed to 156°F during the day and cools to 54°F overnight.