

- C. 72.4%
- D. 74.8%

**Problem 72: EE Board October 1997**

A process equipment contains 100 gallons of water at 25 °C. It is required to bring it to boiling in 10 minutes. The heat loss is estimated to be 5%. What is the kW rating of the heater?

- A. 125 kW
- B. 252 kW
- C. 50.5 kW
- D. 207 kW

**Problem 73: EE Board October 1989**

A total of 0.8 kg of water at 20 °C is placed in a 1-kW electric kettle. How long a time in minute is needed to raise the temperature of the water to 100°C?

- A. 4.46 min.
- B. 5.32 min
- C. 6.34 min
- D. 4.56 min

**Problem 74: EE Board October 1998**

How many calories does an electric heater of 100 watts generate per second?

- A. 10
- B. 23.88
- C. 1000
- D. 42.25

**Problem 75: EE Board October 1997**

The electric energy required to raise the temperature of water in a pool is 1000 kWh. If the heat losses are 25%, the heating energy required will be \_\_\_\_\_.

- A. 1111 kWh
- B. 1266 kWh
- C. 1750 kWh
- D. 1333 kWh

**Problem 76: EE Board April 1991**

An electric heater carries 12 A at 110 V, is submerged in 22.5 lbs of water for 30 minutes. What will be the final temperature of the water if its initial temperature is 35°F?

- A. 135.43 °F
- B. 125.42 °F
- C. 133.56 °F
- D. 128.33 °F

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**Michael Brown**



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