Reading a Steady Temperature in a Heating Model

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (2)

The fan-on curve stays at 28 °C, while the fan-off curve rises from 36 to 38 °C.

Question 2

The steady solid tile does not gain thermal energy overall. Its heater supplies 4 min × 20 J/min = 80 J, so about 80 J leaves the tile over that interval.

Question 3

The tile should cool. The energy input stops while energy continues to transfer from the warmer tile to cooler surroundings.

Question 4

The model states that both tiles remain solid. The level reading comes from balancing energy input and loss, rather than from a change of phase.