Reading Temperature Across a Cooling Tile

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

Reading Temperature Across a Cooling Tile

Question 1

Choice (3)

The difference between surface and center readings shows how uneven the temperature is at that time.

Question 2

P has a difference of 75 − 35 = 40 °C. Q has a difference of 65 − 55 = 10 °C. P’s difference is 30 °C larger.

Question 3

Both tiles finish at 25 °C, yet only P cracks. P has the larger earlier surface–center difference, which fits the uneven cooling explanation.

Question 4

Measure surface and center temperatures at matched times and check for cracking. A smaller temperature difference and fewer cracks than in P would support the explanation.