Checking How a Melt Pack Resets

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

Checking How a Melt Pack Resets

Question 1

Choice (3)

Only material that has become solid can melt during the next test.

Question 2

P has 20 g available to melt, so it can absorb 20 × 50 = 1000 J. Q has 12 g, so it can absorb 12 × 50 = 600 J.

Question 3

An 800 J capacity needs 800/50 = 16 g solid. Q already has 12 g, so at least 4 g more must solidify.

Question 4

Both packs read 28 °C, but the third has no solid to melt. Q has 12 g of solid and can absorb 600 J through melting. The temperature reading alone cannot give the melting capacity.