Checking Test Order When a Meter Drifts

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

Checking Test Order When a Meter Drifts

Question 1

Choice (2)

The reference has not changed. Its different displayed values indicate a changing offset.

Question 2

Subtract 10 from each reference reading to get offsets of 0, 2, and 3. Corrected sample readings are 14 − 0 = 14, 16 − 2 = 14, and 17 − 3 = 14 for trials 1, 2, and 3.

Question 3

P’s raw reading rises by three units, and the reference also rises by three. After the correction both P readings are 14, so those records do not show a change in P.

Question 4

Read the same reference immediately before and immediately after each sample. A meaningful difference between those two reference readings shows that the offset changed during the test interval and the correction may be uncertain.