Reading a Two-Color Solution Test

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

Reading a Two-Color Solution Test

Question 1

Choice (1)

One of each gives 4 + 1 in red and 1 + 4 in blue.

Question 2

Four units of Q also give red signal 4 because each contributes one. The blue signal distinguishes the two possibilities.

Question 3

Two P and one Q give 2 × 4 + 1 = 9 red and 2 × 1 + 4 = 6 blue. Two Q and one P would reverse those readings.

Question 4

Measure one known unit of P and one known unit of Q separately, and measure a mixture containing one unit of each under the same conditions. Each mixture reading should match the sum for its channel.