Reading Light Through Turned Sheets

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

Reading Light Through Turned Sheets

Question 1

Choice (1)

P has aligned sheets and passes 50 units. The two sheets in Q are at 90°, so no light reaches the detector.

Question 2

The first sheet leaves the light vibrating horizontally. The last sheet selects the vertical direction, which is 90° from the incoming vibration, so it passes none.

Question 3

The first sheet passes 50 units. The middle sheet passes half of that, or 25 units, and changes their direction. The final sheet passes half of those 25, or 12.5 units.

Question 4

The original Q gives zero. With the middle sheet, some light approaches the last sheet at 45° rather than 90°. The final reading rises to 12.5 units even though each sheet passes at most the amount reaching it.