# Checking Colored Glass Under Two Lamps

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

### Checking Colored Glass Under Two Lamps

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### Question 1

Panel M transmits 20%. The remaining 100% − 20% = 80% is absorbed in the stated model.

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### Question 2

Choice (2)

The red transmission values are equal. The blue values, 20% and 65%, are different.

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### Question 3

For each lamp divide the reading through the panel by the reading from that same lamp with no panel, then multiply by 100%. This compares the transmitted light with the incident light for each band.

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### Question 4

At a fixed wavelength the frequency and energy of each photon remain fixed. A brighter source at that wavelength delivers more photons per unit time, without changing the energy of each photon.