Reading the Two Sides of a Double Bond

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

Reading the Two Sides of a Double Bond

Question 1

Choice (3)

Both CH_3 groups are on the same side of the bond in P, and one is on each side in Q.

Question 2

Each model has two central carbons and two more in the CH_3 groups, for four. The CH_3 groups contain six hydrogens and the separate H labels add two, giving C_4H_8 for both.

Question 3

No. Turning the whole page moves both CH_3 groups from above to below the double bond. The groups remain on the same side as each other, so the picture still represents P.

Question 4

The ends can rotate around the single bond without changing which atoms are bonded. A different viewing arrangement can occur in the same molecule after rotation about that bond.