3-1 Solve It!



3-1 Lesson Quiz

1. Name a plane parallel to plane *ABCD*.



2. Name a pair of same-side interior angles in the figure below.



- **3.** In the figure above, are $\angle 1$ and $\angle 8$ alternate interior angles, same-side interior angles, corresponding angles, or alternate exterior angles?
- **4. Do you UNDERSTAND?** Why are alternate interior angles and alternate exterior angles both called "alternate"?

Answers

Solve It!

Pieces A and D are the sides of the bookcase. Pieces B, C, E, and F are the shelves; instructions may vary. Sample: Arrange pieces A and D so that a pair of flat faces are across from each other, and each piece stands upright with its long edges \perp to the floor. Place piece B flat on the floor between A and D so that its long edge is \perp to the long edges of both A and D. Attach one short edge of B to each of pieces A and D. Place piece C in between and at the top of A and D so that its long edge is \perp to the long edges of both A and D. Attach one short edge of C to each of pieces A and D. Attach pieces E and F in a similar manner in between pieces B and C.

Lesson Quiz

1. plane EFGH

- **2.** $\angle 2$ and $\angle 3$ or $\angle 6$ and $\angle 7$
- 3. alternate exterior angles
- **4.** Both alternate interior and alternate exterior angle pairs lie on opposite sides of the transversal.

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