## 3-1 Solve It!



## 3-1 Lesson Quiz

1. Name a plane parallel to plane $A B C D$.

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 $E F G H$
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.
