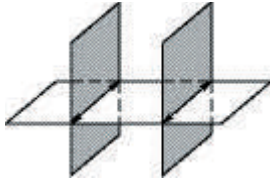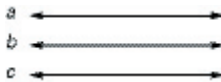# *Answer Key*
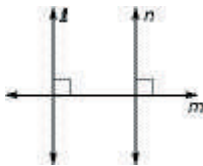
Lesson 3.1

Challenge Practice

1. Yes. The two lines of intersection are coplanar, because they are both in the third plane. The two lines do not intersect, because they are in parallel planes. Because they are coplanar and do not intersect, they are parallel.

2. a seems to be parallel to c. If two lines are parallel to the same line, then they are parallel to each other.

3. l seems to be parallel to n. If two lines are perpendicular to the same line, then they are parallel to each other.

4. a. $\angle 11$, $\angle 17$ **b.** $\angle 5$, $\angle 9$ **c.** $\angle 8$, $\angle 12$
d. $\angle 9$, $\angle 18$ **e.** $\angle 10$, $\angle 14$ **f.** $\angle 4$, $\angle 10$
g. $\angle 11$, $\angle 15$ **h.** $\angle 15$ **5.** III; 3 **6.** L; 50
 7. VII; 7 **8.** XX; 20 **9.** MIII; 1003