Some definitions:

<u>Parallel lines</u> (∥) do not intersect and are coplanar.

<u>Skew lines</u> do not intersect and are not coplanar.

<u>Perpendicular lines</u> (⊥) meet to form right angles.
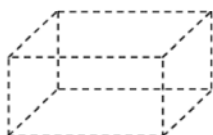
<u>Parallel planes</u> are planes that do not intersect.

<u>Perpendicular planes</u> are planes that meet to form right angles.
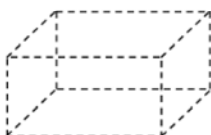
<u>Transversal</u> is a third line that intersects two or more given lines.

Using the boxes below, darken in lines or planes to indicate the solution to each problem.
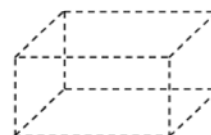
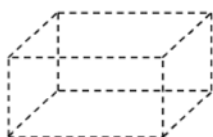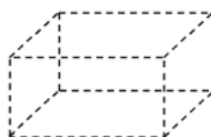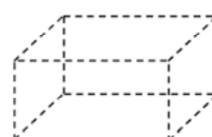1. Skew lines   2. Parallel lines   3. Perpendicular lines

4. Parallel planes   5. Perpendicular planes   6. Line parallel to a plane

Complete each statement using always, sometimes, or never.

6.   Two lines are _____ parallel.

7.   Two parallel lines are _____ coplanar.

8.   Two lines in the plane of the floor are _____ skew.

9.   Two lines that are not coplanar _____ intersect.

10. Two planes parallel to the same plane are _____ parallel to each other.

11. Two planes perpendicular to each other are _____ parallel to each other.