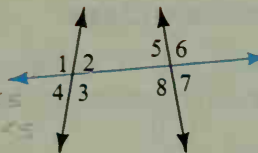


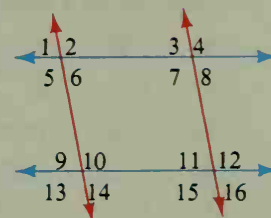
Classroom Exercises

- The blue line is a transversal.
 - Name four pairs of corresponding angles. *$\angle 1$ <math>\angle 5, $\angle 2$ <math>\angle 6, $\angle 3$ <math>\angle 7, $\angle 4$ <math>\angle 8*
 - Name two pairs of alternate interior angles. *$\angle 3$ <math>\angle 5, $\angle 4$ <math>\angle 6*
 - Name two pairs of same-side interior angles. *$\angle 3$ <math>\angle 7, $\angle 4$ <math>\angle 8*
 - Name two pairs of angles that could be called *alternate exterior angles*. *$\angle 1$ <math>\angle 7, $\angle 2$ <math>\angle 8*
 - Name two pairs of angles that could be called *same-side exterior angles*. *$\angle 1$ <math>\angle 8, $\angle 2$ <math>\angle 7*

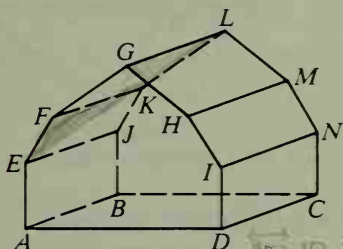


Classify each pair of angles as alternate interior angles, same-side interior angles, corresponding angles, or none of these.

- $\angle 7$ and $\angle 11$ *same-side*
- $\angle 14$ and $\angle 16$ *corresponding*
- $\angle 4$ and $\angle 10$
- $\angle 3$ and $\angle 6$ *alternate*
- $\angle 6$ and $\angle 11$
- $\angle 2$ and $\angle 10$ *corresponding*
- $\angle 2$ and $\angle 3$ *same-side*
- $\angle 7$ and $\angle 12$ *alternate*



- Classify each pair of lines as intersecting, parallel, or skew.
 - \overleftrightarrow{AB} and \overleftrightarrow{EJ}
 - \overleftrightarrow{AB} and \overleftrightarrow{FK}
 - \overleftrightarrow{AB} and \overleftrightarrow{ID}
 - \overleftrightarrow{EF} and \overleftrightarrow{IH}
 - \overleftrightarrow{EF} and \overleftrightarrow{NM}
 - \overleftrightarrow{CN} and \overleftrightarrow{FG}



- Name six lines parallel to \overleftrightarrow{GL} . *\overleftrightarrow{AB} , \overleftrightarrow{DC} , \overleftrightarrow{AE} , \overleftrightarrow{EI} , \overleftrightarrow{FK}*
- Name several lines skew to \overleftrightarrow{GL} .
- Name five lines parallel to plane $ABCD$. *\overleftrightarrow{EF} , \overleftrightarrow{GH} , \overleftrightarrow{IJ} , \overleftrightarrow{KL} , \overleftrightarrow{MN}*
- Name two coplanar segments that do not intersect and yet are not parallel.



Complete each statement with the word *always*, *sometimes*, or *never*.

- Two skew lines are ? parallel.
- Two parallel lines are ? coplanar.
- A line in the plane of the ceiling and a line in the plane of the floor are ? parallel.
- Two lines in the plane of the floor are ? skew.
- A line in the plane of a wall and a line in the plane of the floor are
 - ? parallel.
 - ? intersecting.
 - ? skew.