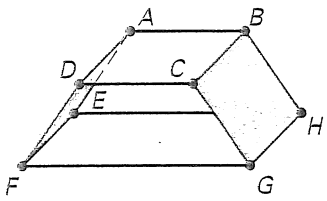
LESSON 3.1

NAME _____ DATE _____

Practice C

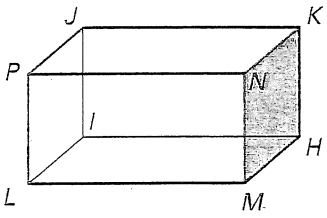
For use with pages 129–134

Think of each segment in the diagram as part of a line. Fill in the blank with *parallel, skew, or perpendicular.*



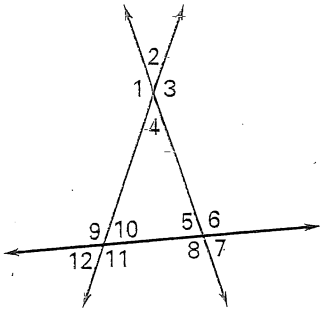
1. $\overleftrightarrow{DC}$ and $\overleftrightarrow{AB}$ are ___?___.
2. $\overleftrightarrow{FG}$ and $\overleftrightarrow{GH}$ are ___?___.
3. $\overleftrightarrow{CD}$ and $\overleftrightarrow{BH}$ are ___?___.
4. plane DCG and plane ABC are ___?___.
5. plane CGF and plane ABH are ___?___.

Think of each segment in the diagram as part of a line. There may be more than one correct answer.



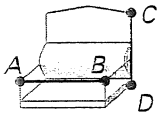
6. Name a line parallel to $\overleftrightarrow{PN}$.
7. Name a line perpendicular to $\overleftrightarrow{PN}$.
8. Name a line skew to $\overleftrightarrow{PN}$.
9. Name a plane parallel to plane PNM.
10. Name a plane perpendicular to plane PNM.

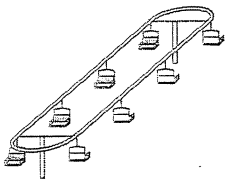
Complete the statement with *corresponding, alternate interior, alternate exterior,* or *consecutive interior.*



11. $\angle 1$ and $\angle 10$ are ___?___ angles.
12. $\angle 7$ and $\angle 11$ are ___?___ angles.
13. $\angle 8$ and $\angle 2$ are ___?___ angles.
14. $\angle 10$ and $\angle 5$ are ___?___ angles.
15. $\angle 4$ and $\angle 9$ are ___?___ angles.
16. $\angle 12$ and $\angle 1$ are ___?___ angles.

Use the diagram of the ski lift to decide whether the statement is *true* or *false*.





17. At any position around the lift, the line containing the crossbar, $\overleftrightarrow{AB}$, of each chair is parallel to the ground.
18. For any chair of the lift, the line containing the back support, $\overleftrightarrow{CD}$, and the line containing the crossbar, $\overleftrightarrow{AB}$, are skew lines.
19. At any position around the lift, the line containing the back support, $\overleftrightarrow{DC}$, is perpendicular to the ground.