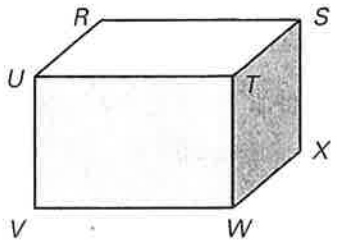
LESSON 3.1

NAME _____ DATE _____

Practice B

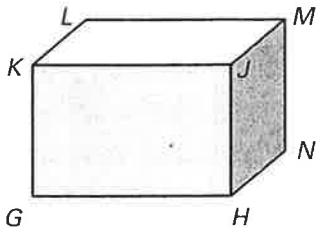
For use with pages 129–134

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



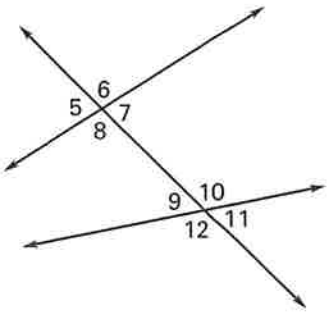
1. $\overleftrightarrow{UT}$ and $\overleftrightarrow{WT}$ are ___?___.
2. $\overleftrightarrow{RS}$ and $\overleftrightarrow{VW}$ are ___?___.
3. $\overleftrightarrow{TU}$ and $\overleftrightarrow{WX}$ are ___?___.
4. plane VWT and plane RSX are ___?___.
5. plane RST and plane SXW are ___?___.

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



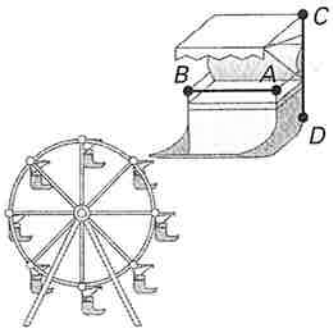
6. Name a line parallel to $\overleftrightarrow{HJ}$.
7. Name a line perpendicular to $\overleftrightarrow{LM}$.
8. Name a line skew to $\overleftrightarrow{GH}$.
9. Name a plane parallel to plane GHJ.
10. Name a plane perpendicular to plane KLM.

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



11. $\angle 6$ and $\angle 10$ are ___?___ angles.
12. $\angle 7$ and $\angle 9$ are ___?___ angles.
13. $\angle 8$ and $\angle 9$ are ___?___ angles.
14. $\angle 12$ and $\angle 8$ are ___?___ angles.
15. $\angle 5$ and $\angle 11$ are ___?___ angles.
16. $\angle 8$ and $\angle 10$ are ___?___ angles.

Use the diagram of the Ferris wheel to decide whether the statement is *true* or *false.*



17. At any position around the wheel, the line containing the crossbar, $\overleftrightarrow{AB}$, of each cart is parallel to the ground.
18. For any cart of the Ferris wheel, 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 wheel, the line containing the back support, $\overleftrightarrow{DC}$, is perpendicular to the ground.