

Name \_\_\_\_\_

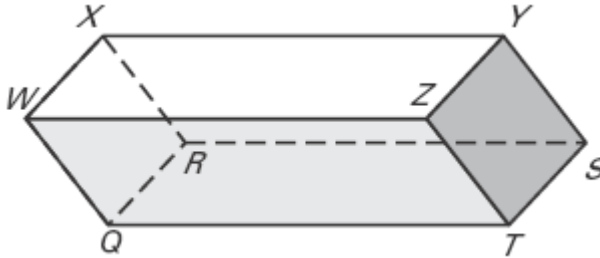
Date \_\_\_\_\_

LESSON 3.1

**Practice C**

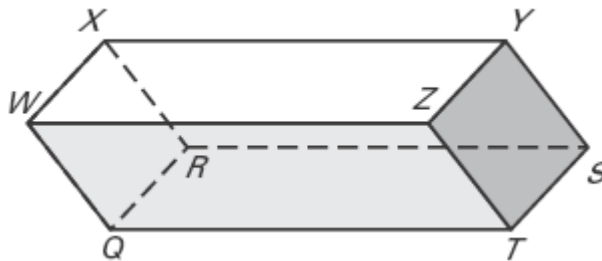
For use with pages 146-152

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



1.  $\overleftrightarrow{WZ}$  and  $\overleftrightarrow{XY}$  are     ?    .
2.  $\overleftrightarrow{WZ}$  and  $\overleftrightarrow{YZ}$  are     ?    .
3.  $\overleftrightarrow{RS}$  and  $\overleftrightarrow{TZ}$  are     ?    .
4. Plane  $WQR$  and plane  $SYT$  are     ?    .
5. Plane  $RQW$  and plane  $TQW$  are     ?    .

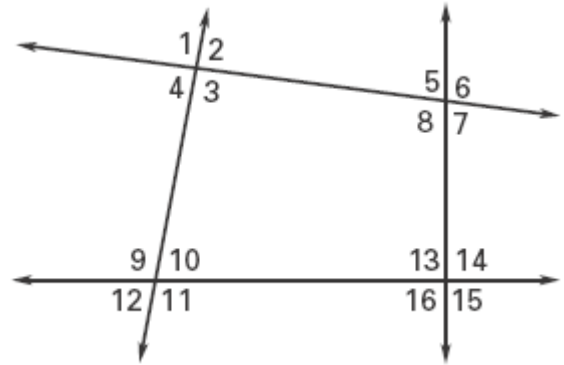
Think of each segment in the diagram as part of a line. Which line(s) or plane(s) appear to fit the description?



6. Line(s) parallel to  $\overleftrightarrow{RX}$
7. Line(s) perpendicular to  $\overleftrightarrow{TZ}$
8. Line(s) skew to  $\overleftrightarrow{XY}$  and containing point  $S$
9. Plane(s) perpendicular to plane  $STZ$
10. Plane(s) parallel to plane  $QRS$

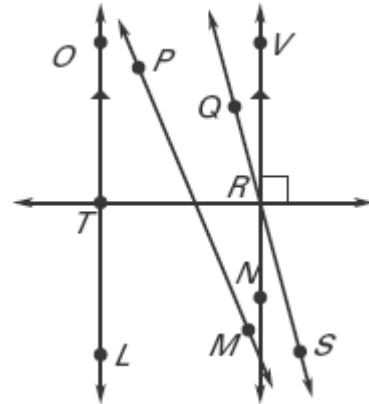
Classify the angle pair as *corresponding*, *alternate interior*, *alternate exterior*, or *consecutive interior angles*.

11.  $\angle 1$  and  $\angle 5$
12.  $\angle 4$  and  $\angle 6$
13.  $\angle 16$  and  $\angle 10$
14.  $\angle 11$  and  $\angle 16$
15.  $\angle 12$  and  $\angle 14$
16.  $\angle 7$  and  $\angle 13$



In Exercises 17-20, use the markings in the diagram.

17. Name a pair of parallel lines.
18. Name a pair of perpendicular lines.
19. Is  $\overline{QS} \parallel \overline{PM}$ ? Explain.
20. Is  $\overline{OL} \perp \overline{TR}$ ? Explain.



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

21. At any position around the ski lift, the line containing the crossbar  $\overline{AB}$  of each chair is parallel to the ground.
22. The line containing the back support  $\overline{CD}$  and the line containing the crossbar  $\overline{AB}$  are skew lines.
23. At any position around the lift, the line containing the back support  $\overline{CD}$  is perpendicular to the ground.

