

Name _____ Date _____

If you turn this in on time: do the odds.

If you turn this in late or
you are doing it over: do the evens.

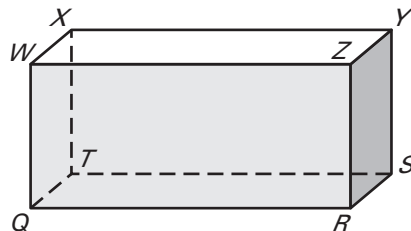
LESSON
3.1

Practice A

For use with pages 146–152

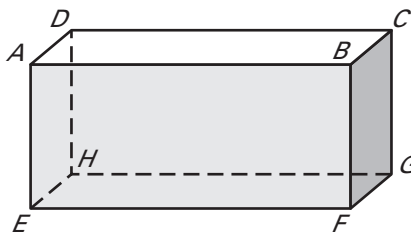
Think of each segment in the diagram as part of a line. Complete the statement with *parallel*, *skew*, or *perpendicular*.

- \overleftrightarrow{WZ} and \overleftrightarrow{XY} are ?
- \overleftrightarrow{WZ} and \overleftrightarrow{QW} are ?
- \overleftrightarrow{SY} and \overleftrightarrow{WX} are ?
- Plane WQR and plane SYT are ?
- Plane RQT and plane WQR are ?



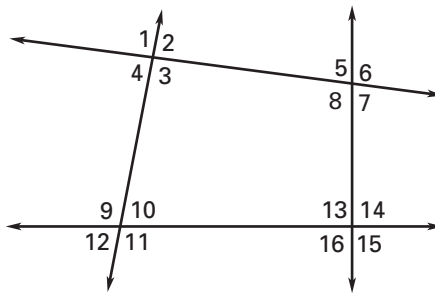
Think of each segment in the diagram as part of a line. Which line(s) or plane(s) appear to fit the description?

- Line(s) parallel to \overleftrightarrow{AB}
- Line(s) perpendicular to \overleftrightarrow{BF}
- Line(s) skew to \overleftrightarrow{CD} and containing point E
- Plane(s) perpendicular to plane ABE
- Plane(s) parallel to plane ABC



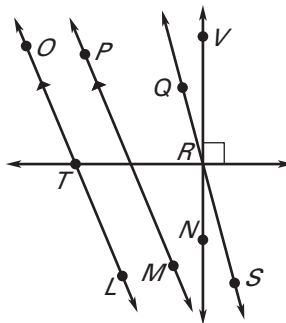
Classify the angle pair as *corresponding*, *alternate interior*, *alternate exterior*, or *consecutive interior* angles.

- $\angle 3$ and $\angle 9$
- $\angle 5$ and $\angle 13$
- $\angle 4$ and $\angle 10$
- $\angle 5$ and $\angle 15$
- $\angle 7$ and $\angle 14$
- $\angle 1$ and $\angle 11$



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

- Name a pair of parallel lines.
- Name a pair of perpendicular lines.
- Is $\overleftrightarrow{QS} \parallel \overleftrightarrow{TR}$?
- Is $\overleftrightarrow{VN} \perp \overleftrightarrow{TR}$?



Teacher
Score:

LESSON 3.1

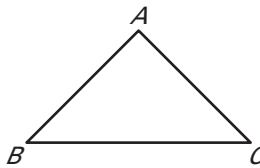
LESSON
3.1
Practice A *continued*
For use with pages 146–152

Copy and complete the statement with *sometimes, always, or never*.

21. If two lines are not parallel, then they ? intersect.
22. If one line is skew to another, then they ? intersect.
23. If two lines are perpendicular, then they ? intersect.
24. If two lines are coplanar, then they are ? perpendicular.

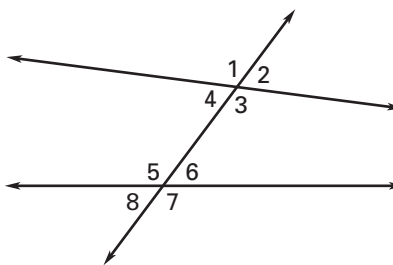
Copy the diagram and sketch the line.

25. Line through A and parallel to \overleftrightarrow{BC} .
26. Line through A and perpendicular to \overleftrightarrow{BC} .
27. Line through B and perpendicular to \overleftrightarrow{BC} .
28. Line through C and parallel to \overleftrightarrow{AB} .



In Exercises 29–32, use the diagram.

29. Name all pairs of corresponding angles.
30. Name all pairs of alternate interior angles.
31. Name all pairs of alternate exterior angles.
32. Name all pairs of consecutive interior angles.



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

33. The plane containing the table top is parallel to the ground.
34. The planes containing the edges of each leg are parallel to the plane containing the table top.
35. Edge lines \overleftrightarrow{AD} and \overleftrightarrow{CD} are perpendicular to each other.
36. Edge lines \overleftrightarrow{AD} and \overleftrightarrow{BC} will intersect.

