

Lesson 3.1 Worksheet

Name: _____

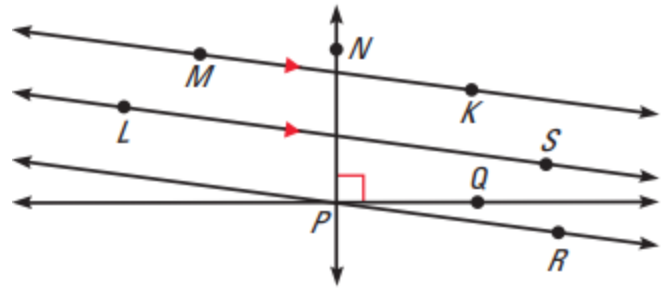
Think of each segment in the diagram as part of a line. Which line(s) or plane(s) contain point B and appear to fit the description?

- 1.) Line(s) parallel to \overleftrightarrow{CD} .
- 2.) Line(s) perpendicular to \overleftrightarrow{CD} .
- 3.) Line(s) skew to \overleftrightarrow{CD} .
- 4.) Lines parallel to plane CDH.



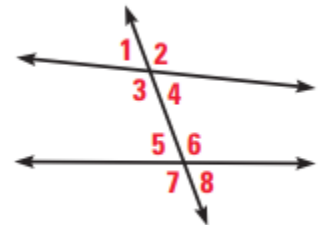
For exercises 5-8, use the markings in the diagram to answer the questions below.

- 5.) Name a pair of parallel lines.
- 6.) Name a pair of perpendicular lines.
- 7.) Is $\overleftrightarrow{PN} \parallel \overleftrightarrow{KM}$?
- 8.) Is $\overleftrightarrow{PR} \perp \overleftrightarrow{NP}$?



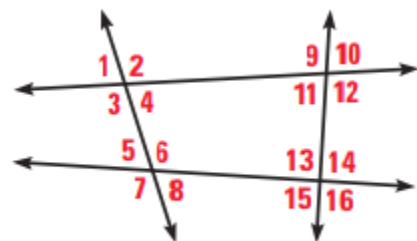
In 9-12, use the diagram to name all pairs of the given angle type.

- 9.) Corresponding Angles.
- 10.) Alternate Interior Angles.
- 11.) Alternate Exterior Angles.
- 12.) Consecutive Angles.



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

- 13.) $\angle 5$ and $\angle 1$
- 14.) $\angle 5$ and $\angle 1$
- 15.) $\angle 5$ and $\angle 1$
- 16.) $\angle 5$ and $\angle 1$



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

17.) If two lines are parallel, then they are _____ coplanar.

18.) If two lines are not coplanar, then they _____ intersect.

19.) If three lines intersect at one point, then they are _____ coplanar.

CONSTRUCTION: Use the picture of the cherry-picker to answer 20 and 21.

20.) Is the work platform *perpendicular*, *parallel*, or *skew* to the ground?

21.) Is the arm *perpendicular*, *parallel*, or *skew* to the ground?

