Name_____ Class_____ Date_____

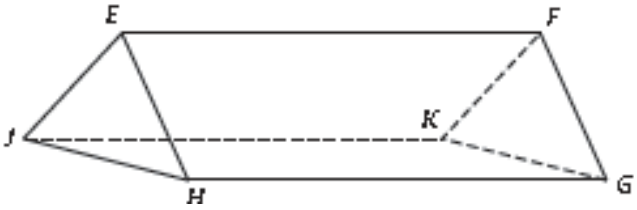
Practice 1-4

Segments, Rays, Parallel Lines, and Planes

Write *true* or *false.*

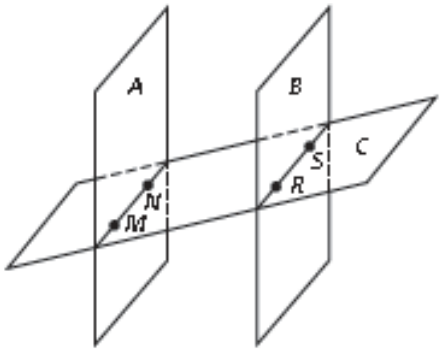
1. $\overleftrightarrow{XY}$ is the same as $\overleftrightarrow{YX}$.
2. $\overrightarrow{XY}$ is the same as $\overrightarrow{YX}$.
3. If $\overrightarrow{AB}$ and $\overrightarrow{AC}$ are opposite rays, then they are collinear.
4. If two rays have the same endpoint, then they form a line.
5. If the union of two rays is a line, then the rays are opposite rays.
6. If $\overrightarrow{PQ}$ and $\overrightarrow{PR}$ are the same rays, then Q and R are the same point.

Refer to the diagram at the right.



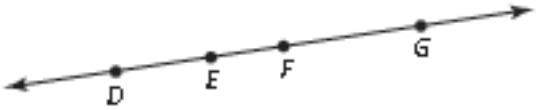
7. Name all segments parallel to $\overline{EF}$.
8. Name all segments parallel to $\overline{FG}$.
9. Name three pairs of skew lines.

Refer to the diagram at the right.



10. Which pair(s) of planes is (are) parallel?
11. Which pair(s) of planes intersect?
12. Which planes intersect in $\overleftrightarrow{MN}$?
13. Which planes intersect in $\overleftrightarrow{RS}$?

Refer to the diagram at the right.



14. Name $\overrightarrow{EF}$ in another way.
15. How many different segments can be named?
16. Name a pair of opposite rays with E as an endpoint.
17. Name in two different ways the ray opposite $\overrightarrow{FG}$.
18. Name $\overrightarrow{GE}$ in two other ways.
19. Are $\overline{EG}$ and $\overline{GE}$ the same segment?

Draw each of the following.

20. parallel planes S, T, and U
21. planes R and W intersecting in $\overleftrightarrow{PQ}$

© Pearson Education, Inc., publishing as Pearson Prentice Hall. All rights reserved.