

# 3-1 Skills Practice

## Parallel Lines and Transversals

For Exercises 1–4, refer to the figure at the right.

1. Name all planes that are parallel to plane  $DEH$ . plane  $FBG$
2. Name all segments that are parallel to  $\overline{AB}$ .  $\overline{CD}$ ,  $\overline{EF}$ ,  $\overline{GH}$
3. Name all segments that intersect  $\overline{GH}$ .  $\overline{CG}$ ,  $\overline{DH}$ ,  $\overline{EH}$ ,  $\overline{FG}$
4. Name all segments that are skew to  $\overline{CD}$ .  $\overline{AE}$ ,  $\overline{BF}$ ,  $\overline{EH}$ ,  $\overline{FG}$



Lesson 3-1

Identify the sets of lines to which each given line is a transversal.

5.  $r$   $s$  and  $t$ ,  $s$  and  $w$ ,  $s$  and  $z$ ,  $t$  and  $w$ ,  $t$  and  $z$ ,  $w$  and  $z$
6.  $s$   $r$  and  $t$ ,  $r$  and  $w$ ,  $r$  and  $z$ ,  $t$  and  $w$ ,  $t$  and  $z$ ,  $w$  and  $z$
7.  $w$   $r$  and  $s$ ,  $r$  and  $t$ ,  $r$  and  $z$ ,  $s$  and  $t$ ,  $s$  and  $z$ ,  $t$  and  $z$



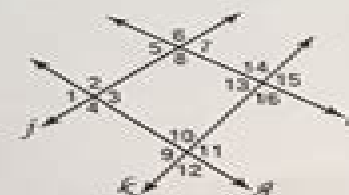
Identify each pair of angles as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.

8.  $\angle 2$  and  $\angle 8$   
alternate exterior
9.  $\angle 3$  and  $\angle 6$   
consecutive interior
10.  $\angle 1$  and  $\angle 9$   
corresponding
11.  $\angle 3$  and  $\angle 9$   
alternate interior
12.  $\angle 6$  and  $\angle 12$   
alternate exterior
13.  $\angle 7$  and  $\angle 11$   
corresponding



Name the transversal that forms each pair of angles. Then identify the special name for the angle pair.

14.  $\angle 4$  and  $\angle 10$   
 $g$ ; alternate interior
15.  $\angle 2$  and  $\angle 12$   
 $g$ ; alternate exterior
16.  $\angle 7$  and  $\angle 3$   
 $j$ ; corresponding
17.  $\angle 13$  and  $\angle 10$   
 $k$ ; consecutive interior
18.  $\angle 8$  and  $\angle 14$   
 $h$ ; alternate interior
19.  $\angle 6$  and  $\angle 14$   
 $h$ ; corresponding



# Holt Geometry 1 1 Answers

**Yijin Wang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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