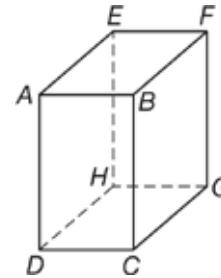


# LT 1.1 Skills Practice

## Parallel Lines and Transversals

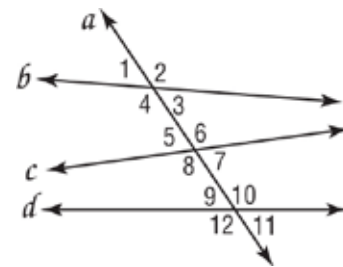
For Exercises 1-4, refer to the figure at the right to identify each of the following.



1. all planes that are parallel to plane  $DEH$
2. all segments that are parallel to  $\overline{AB}$
3. all segments that intersect  $\overline{GH}$
4. all segments that are skew to  $\overline{CD}$

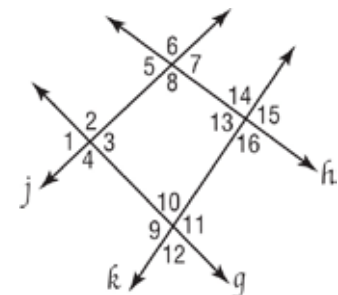
Classify the relationship between each pair of angles as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.

- |              |              |
|--------------|--------------|
| 5. 4 and 5   | 6. 5 and 11  |
| 7. 4 and 6   | 8. 7 and 9   |
| 9. 2 and 8   | 10. 3 and 6  |
| 11. 1 and 9  | 12. 3 and 9  |
| 13. 6 and 12 | 14. 7 and 11 |



Identify the transversal connecting each pair of angles. Then classify the relationship between each pair of angles.

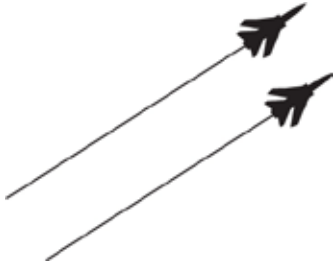
- |              |               |
|--------------|---------------|
| 15. 4 and 10 | 16. 2 and 12  |
| 17. 7 and 3  | 18. 13 and 10 |
| 19. 8 and 14 | 20. 6 and 14  |



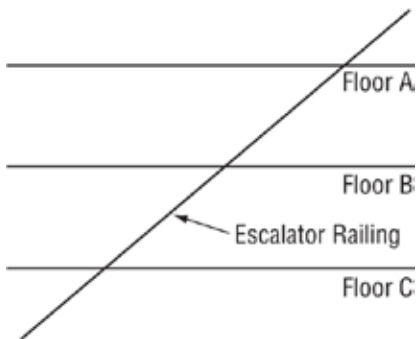
# LT 1.1 Word Problem Practice

## Parallel Lines and Transversals

**1. FIGHTERS** Two fighter aircraft fly at the same speed and in the same direction leaving a trail behind them. Describe the relationship between these two trails.

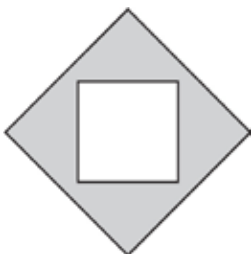


**2. ESCALATORS** An escalator at a shopping mall runs up several levels. The escalator railing can be modeled by a straight line running past horizontal lines that represent the floors.

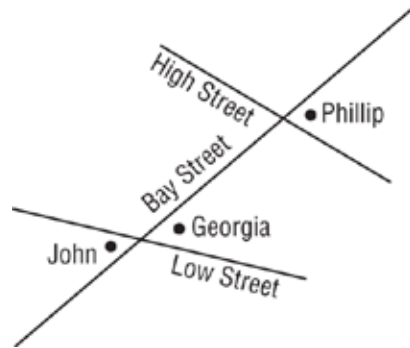


Describe the relationships of these lines.

**3. DESIGN** Carol designed the picture frame shown below. How many pairs of parallel segments are there among various edges of the frame?

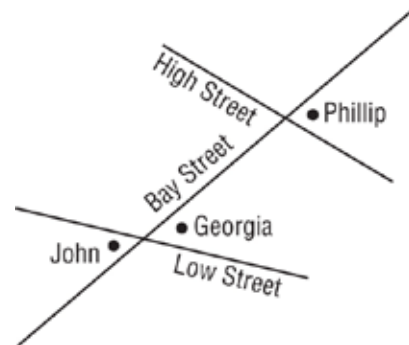


**4. NEIGHBORHOODS** John, Georgia, and Phillip live nearby each other as shown in the map.



Describe how their corner angles relate to each other in terms of alternate interior, alternate exterior, corresponding, consecutive interior, or vertical angles.

**5. MAPPING** Use the following figure.



- a. Connor lives at the angle that forms an alternate interior angle with Georgia's residence. Add Connor to the map.
- b. Quincy lives at the angle that forms a consecutive interior angle with Connor's residence. Add Quincy to the map.