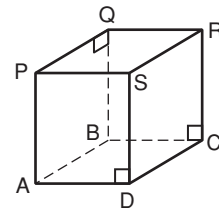


LESSON
3-1 **Problem Solving**
Lines and Angles

Use the diagram of the rectangular box for Exercises 1 and 2. Refer to the diagram to help justify your answer.



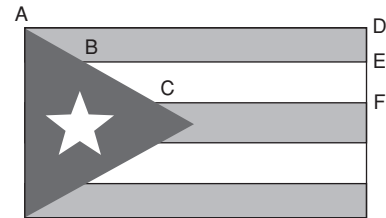
1. Is the relationship “is skew to” transitive?

2. If a segment is skew to one of two parallel segments, must it be skew to the other?

Use the flag of Puerto Rico for Exercises 3 and 4.

3. If $\angle DFC$ and $\angle ACF$ are same-side interior angles, identify the transversal.

4. Name a pair of alternate interior angles if the transversal is \overline{BE} .



Choose the best answer.

5. Describe the type of lines suggested by the two skis of a person water skiing.

- A intersecting lines
- B parallel lines
- C perpendicular lines
- D skew lines

6. Describe the type of lines suggested by the paths of two people at a fair when one person is riding the aerial ride from one end of the fair to the other, and the other person is walking in a different direction on the ground.

- F intersecting H perpendicular
- G parallel J skew

7. In the quilt pattern, which is a true statement about the angles formed by the transversal \overline{HK} and \overline{ML} ?

- A $\angle LSK$ and $\angle PHQ$ are corresponding angles.
- B $\angle JSQ$ and $\angle JQH$ are corresponding angles.
- C $\angle LSK$ and $\angle QSJ$ are same-side interior angles.
- D $\angle PHQ$ and $\angle RLS$ are same-side interior angles.

