

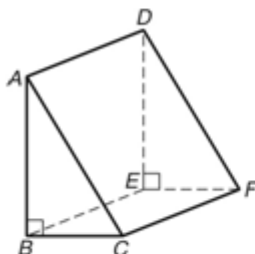
**CHAPTER**  
**3**

**Section Quiz**

**Lessons 3-1 Through 3-4 |**

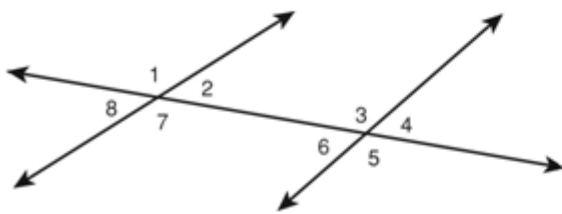
Choose the best answer.

Refer to the figure for Exercises 1–3.



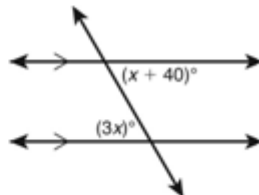
- Which segment is perpendicular to  $\overline{DE}$ ?  
 A  $\overline{AB}$                       C  $\overline{DF}$   
 B  $\overline{CF}$                          D  $\overline{EF}$
- Which segment is parallel to  $\overline{BE}$ ?  
 F  $\overline{AB}$                          H  $\overline{CF}$   
 G  $\overline{BC}$                          J  $\overline{DF}$
- Which segment is NOT skew to  $\overline{DF}$ ?  
 A  $\overline{AB}$                          C  $\overline{BC}$   
 B  $\overline{AC}$                          D  $\overline{BE}$

Refer to the figure for Exercises 4 and 5.



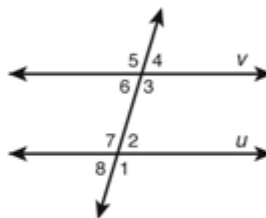
- Which pair of angles are corresponding angles?  
 F  $\angle 1$  and  $\angle 4$             H  $\angle 2$  and  $\angle 5$   
 G  $\angle 6$  and  $\angle 8$             J  $\angle 8$  and  $\angle 7$
- Which pair of angles are alternate exterior angles?  
 A  $\angle 4$  and  $\angle 8$             C  $\angle 3$  and  $\angle 7$   
 B  $\angle 2$  and  $\angle 5$             D  $\angle 1$  and  $\angle 4$

- What is the value of  $x$ ?



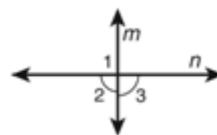
- F 35                                  H 15  
 G 20                                 J 12.5

- Which could you use to show that  $u \parallel v$ ?



- A  $\angle 1$  and  $\angle 8$  are supplementary.  
 B  $\angle 4$  and  $\angle 8$  are supplementary.  
 C  $\angle 3$  and  $\angle 7$  are congruent.  
 D  $\angle 7$  and  $\angle 8$  are congruent.

- Why is  $m \perp n$ ?



- F If two coplanar lines are perpendicular to the same line, then the two lines are parallel to each other.  
 G If two parallel lines are cut by a transversal, then the pairs of same-side interior angles are supplementary.  
 H In a plane, if a transversal is perpendicular to one of two parallel lines, then it is perpendicular to the other line.  
 J If two intersecting lines form a linear pair of congruent angles, then the lines are perpendicular.