

Geometry Software Lesson Opener

- For use with pages 136–141
- **1.** Draw \overleftrightarrow{AB} .

NAME

- **2.** Draw \overrightarrow{CD} such that point *C* is on \overrightarrow{AB} and the two angles formed are congruent.
- **3.** Measure the two angles formed by \overrightarrow{AB} and \overrightarrow{CD} . What type of angles are formed?
- **4.** What is true about \overrightarrow{AB} and \overrightarrow{CD} ? How do you know?
- **5.** Repeat Steps 1–4 for new line \overrightarrow{MN} and ray \overrightarrow{PQ} .
- **6.** Repeat Steps 1–4 for new line \overleftrightarrow{HI} and ray \overrightarrow{JK} .
- **7.** Use the results of Steps 1–6 to make a conjecture about two lines that intersect to form a linear pair of congruent angles.
- **8.** Draw $\overrightarrow{RS} \perp \overrightarrow{TU}$.
- **9.** Measure all four angles formed. What type of angles are formed?
- **10.** Repeat Steps 8 and 9 for \overrightarrow{XY} and \overrightarrow{ZW} .
- **11.** Repeat Steps 8 and 9 for \overrightarrow{LM} and \overrightarrow{NP} .
- **12.** Use the results of Steps 8–11 to make a conjecture about the angles formed by two perpendicular lines.

25