## Geometry Software Lesson Opener

For use with pages 136-141

1. Draw $\overleftrightarrow{A B}$.
2. Draw $\overrightarrow{C D}$ such that point $C$ is on $\overleftrightarrow{A B}$ and the two angles formed are congruent.
3. Measure the two angles formed by $\overleftrightarrow{A B}$ and $\overrightarrow{C D}$. What type of angles are formed?
4. What is true about $\overleftrightarrow{A B}$ and $\overrightarrow{C D}$ ? How do you know?
5. Repeat Steps 1-4 for new line $\overleftrightarrow{M N}$ and ray $\overrightarrow{P Q}$.
6. Repeat Steps 1-4 for new line $\overleftrightarrow{H I}$ and ray $\overrightarrow{J K}$.
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 $\overleftrightarrow{R S} \perp \overleftrightarrow{T U}$.
9. Measure all four angles formed. What type of angles are formed?
10. Repeat Steps 8 and 9 for $\overleftrightarrow{X Y}$ and $\overleftrightarrow{Z W}$.
11. Repeat Steps 8 and 9 for $\overleftrightarrow{L M}$ and $\overleftrightarrow{N P}$.
12. Use the results of Steps $8-11$ to make a conjecture about the angles formed by two perpendicular lines.
