## Activity Lesson Opener

For use with pages 338-346
SET UP: Work with a partner.
Is $A B C D$ a parallelogram? To decide, one partner draws and labels figure $A B C D$ with the given properties while the other partner tries to draw a figure $A B C D$ that has the given properties but is not a parallelogram. When $A B C D$ is not a parallelogram, include a sketch that supports your
 answer. Switch roles for each
exercise.

1. $\overline{A B} \cong \overline{C D}$ and $\overline{B C} \cong \overline{A D}$
2. $\overline{B D}$ and $\overline{A C}$ bisect each other.
3. $\overline{B D}$ and $\overline{A C}$ are angle bisectors.
4. $\overline{A B} \| \overline{C D}$ and $\overline{B C} \cong \overline{A D}$
5. $\overline{B C} \cong \overline{A D}$ and $\overline{B C} \| \overline{A D}$
6. $\angle A \cong \angle C$ and $\angle B \cong \angle D$
7. $\angle A$ and $\angle B$ are supplementary; $\angle C$ and $\angle D$ are supplementary.
8. $\angle A$ is supplementary to $\angle B$ and $\angle D$.
9. $\overline{B D} \cong \overline{A C}$
10. $\overline{A B} \| \overline{C D}$ and $\overline{B C} \| \overline{A D}$
