

LESSON
1.4**Challenge Practice***For use with pages 24–34*

In Exercises 1–4, tell whether the statement is *always, sometimes, or never true*. Explain your reasoning.

1. A pair of opposite rays form a straight angle.
2. The measures of two acute angles add up to 90° .
3. If C is in the interior of $\angle ADB$, then $\angle ADC \cong \angle CDB$.
4. When a ray bisects a straight angle, two congruent acute angles are formed.

In Exercises 5–11, use the following information.

D is in the interior of $\angle BAE$.

$$m\angle BAC = 125^\circ$$

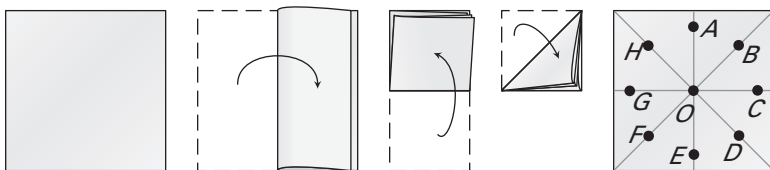
E is in the interior of $\angle DAF$.

$$m\angle EAC = 95^\circ$$

F is in the interior of $\angle EAC$.

$$m\angle BAD = m\angle EAF = m\angle FAC$$

5. Draw a sketch that uses all of the given information.
6. Find $m\angle FAC$.
7. Find $m\angle BAD$.
8. Find $m\angle FAB$.
9. Find $m\angle DAE$.
10. Find $m\angle FAD$.
11. Find $m\angle BAE$.
12. Use a piece of paper folded in half three times and labeled as shown.



- a. Name eight congruent angles.
- b. Name eight right angles.
- c. Name eight congruent obtuse angles.
- d. Name two angles that share a common vertex and side (but no common interior points), and combine to form a straight angle.