Name $\qquad$
Class $\qquad$

## Exploring angle measures

On page 1.3, you will find a model of a boat sail with the measures of the angles shown.

1. Drag points $A, C$, or $T$. What do you notice about the angles when comparing $\triangle C A T$ to $\triangle Z A P ?$
2. Drag point $P$. What do you notice about the angles?

Advance to page 1.6, which shows the same model sail but has the measures of the side lengths.
3. Drag points $A, C$, or $T$. What do you notice about the side lengths when comparing $\triangle C A T$ to $\triangle Z A P$ ?
4. Drag point $P$. What do you notice about the side lengths? Are they ever the same?
5. When are $\triangle C A T$ and $\triangle Z A P$ similar triangles? Congruent triangles?

