| Ų | Sailing Away    |
|---|-----------------|
|   | SailingAway.tns |

| Name  |  |
|-------|--|
| Class |  |

## 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  $\triangle CAT$  to  $\triangle ZAP$ ?

**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  $\triangle CAT$  to  $\triangle ZAP$ ?

4. Drag point *P*. What do you notice about the side lengths? Are they ever the same?

**5.** When are  $\triangle CAT$  and  $\triangle ZAP$  similar triangles? Congruent triangles?