

Name:

BECA / Dr. Huson / Geometry 7 Similarity

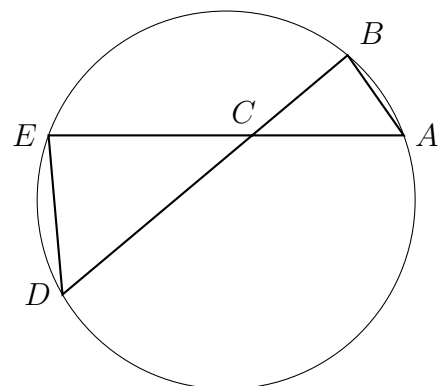
7.12 Similarity transformations**CCSS.HSG.SRT.B.5**

1. Do Now: As shown, the chords \overline{AE} and \overline{BD} intersect at C , given $\triangle ABC \sim \triangle DEC$.

(a) Given $BC = 3$, and $EC = 6$. Find the scale factor k .

(b) $AC = 4$, find CD .

(c) Which angle is congruent to $\angle E$?

**Definition: Symmetry**

“Symmetry is a type of invariance: the property that a mathematical object remains unchanged under a set of operations or transformations. . . . a symmetry is a mapping of [an] object onto itself.” (Wikipedia, Symmetry in mathematics)