## Unit 1 Lesson 13: Congruence

### 1 Not Just the Vertices (Warm up)

#### Student Task Statement

Trapezoids $ABCD$ and $A^{′}B^{′}C^{′}D^{′}$ are congruent.

* Draw and label the points on $A^{′}B^{′}C^{′}D^{′}$ that correspond to $E$ and $F$.
* Draw and label the points on $ABCD$ that correspond to $G^{′}$ and $H^{′}$.
* Draw and label at least three more pairs of corresponding points.



### 2 Congruent Ovals

#### Student Task Statement

Are any of the ovals congruent to one another? Explain how you know.



### 3 Corresponding Points in Congruent Figures

#### Student Task Statement

Here are two congruent shapes with some corresponding points labeled.



1. Draw the points corresponding to $B$, $D$, and $E$, and label them $B^{′}$, $D^{′}$, and $E^{′}$.
2. Draw line segments $AD$ and $A^{′}D^{′}$ and measure them. Do the same for segments $BC$ and $B^{′}C^{′}$ and for segments $AE$ and $A^{′}E^{′}$. What do you notice?
3. Do you think there could be a pair of corresponding segments with different lengths? Explain.

### 4 Astonished Faces (Optional)

#### Student Task Statement

Are these faces congruent? Explain your reasoning.



#### Images for Activity Synthesis





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