

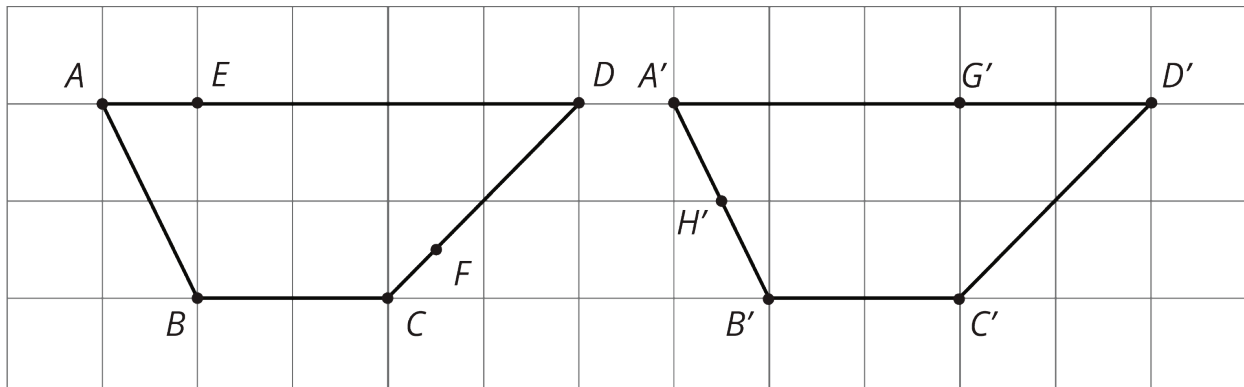
# Unit 1 Lesson 13: Congruence

## 1 Not Just the Vertices (Warm up)

### Student Task Statement

Trapezoids  $ABCD$  and  $A'B'C'D'$  are congruent.

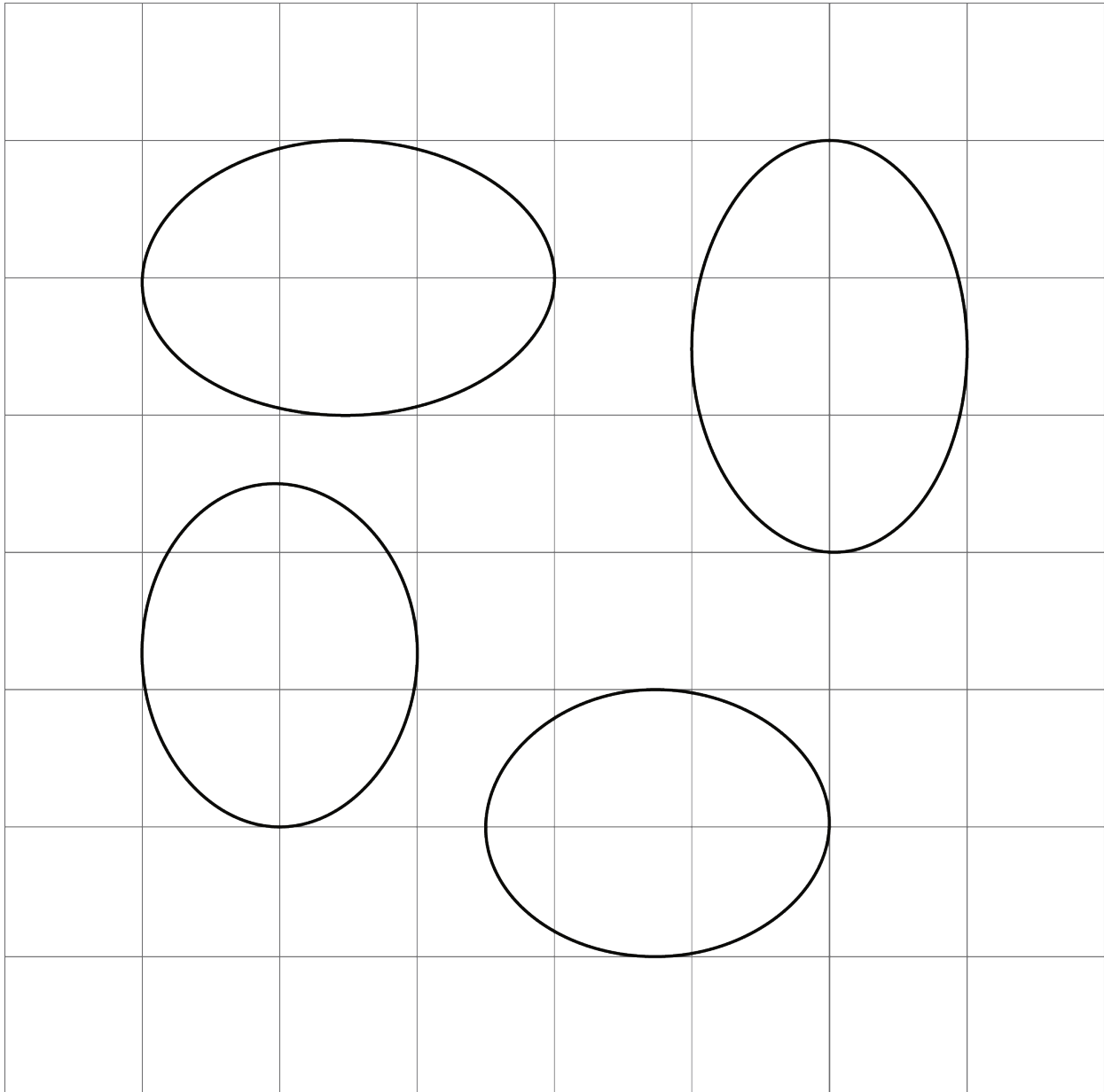
- Draw and label the points on  $A'B'C'D'$  that correspond to  $E$  and  $F$ .
- Draw and label the points on  $ABCD$  that correspond to  $G'$  and  $H'$ .
- Draw and label at least three more pairs of corresponding points.



## 2 Congruent Ovals

### Student Task Statement

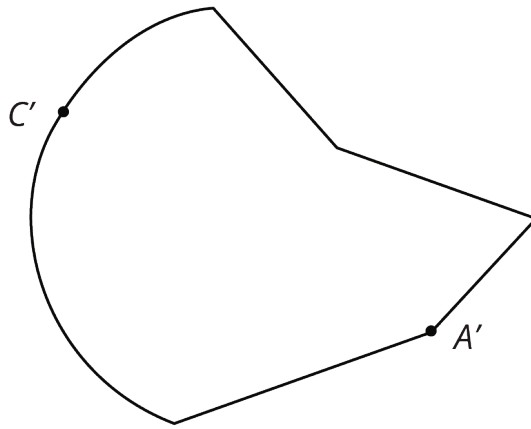
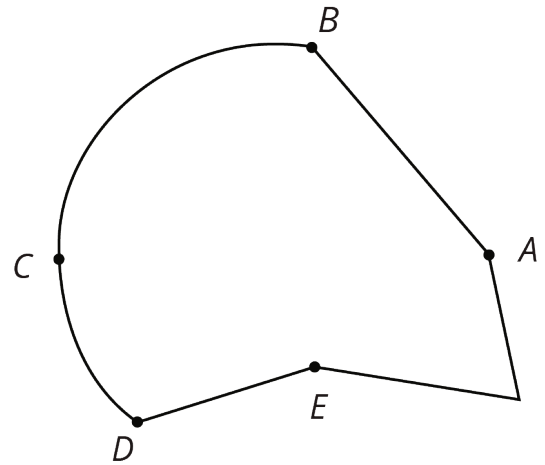
Are any of the ovals congruent to one another? Explain how you know.



### 3 Corresponding Points in Congruent Figures

#### Student Task Statement

Here are two congruent shapes with some corresponding points labeled.

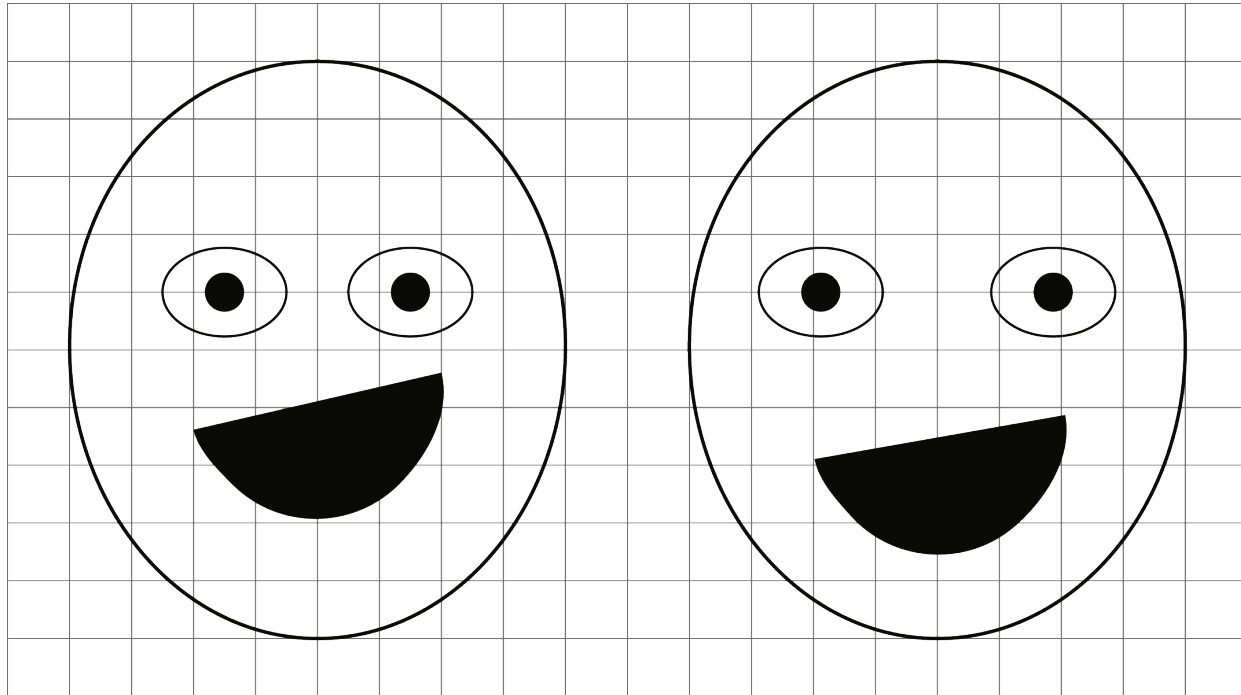


1. Draw the points corresponding to  $B$ ,  $D$ , and  $E$ , and label them  $B'$ ,  $D'$ , and  $E'$ .
2. Draw line segments  $AD$  and  $A'D'$  and measure them. Do the same for segments  $BC$  and  $B'C'$  and for segments  $AE$  and  $A'E'$ . What do you notice?
3. Do you think there could be a pair 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**

