**Activity 2.1.6b Mapping Congruent Polygons**

In each exercise identify the transformation or transformations that will map one of two congruent polygons onto the other.

1. Open the file Act2\_1\_6ex1.gbb. ∆*ABC* ∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
2. Open the file Act2\_1\_6ex2.gbb. ∆*ABC* ∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
3. Open the file Act2\_1\_6ex3.gbb. ∆*ABC* ∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
4. Open the file Act2\_1\_6ex4.gbb. ∆*ABC* ∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
5. Open the file Act2\_1\_6ex5.gbb. Pentagon *ABCDE* Pentagon *MNOPQ*. Map Pentagon *MNOPQ* onto Pentagon *ABCDE*. Describe the transformation or transformations you used.
6. Open the file Act2\_1\_6ex5.gbb. You will see two congruent trapezoids. Map one of the trapezoids onto the other one.
7. Describe the transformation or transformations you used.
8. Write a statement about congruence:   
   Trapezoid \_\_\_\_\_\_ Trapezoid \_\_\_\_\_\_\_