**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 ctcoregeomACT2161.gbb. ∆*ABC* $≅$∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
2. Open the file ctcoregeomACT2162.gbb. ∆*ABC* $≅$∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
3. Open the file ctcoregeomACT2163.gbb. ∆*ABC* $≅$∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
4. Open the file ctcoregeomACT2164.gbb. ∆*ABC* $≅$∆*DEF*. Map ∆*DEF* onto ∆*ABC*. Describe the transformation or transformations you used.
5. Open the file ctcoregeomACT2165.gbb. Pentagon *ABCDE* $≅$ Pentagon *MNOPQ*. Map Pentagon *MNOPQ* onto Pentagon *ABCDE*. Describe the transformation or transformations you used.
6. Open the file ctcoregeomACT2166.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 \_\_\_\_\_\_\_