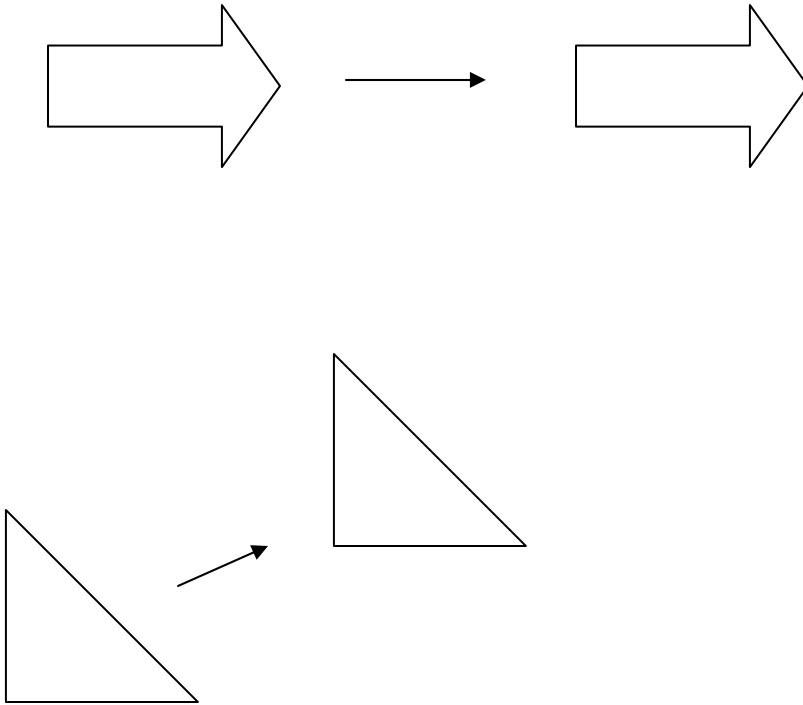


Lesson: Translations, Rotations, Reflections

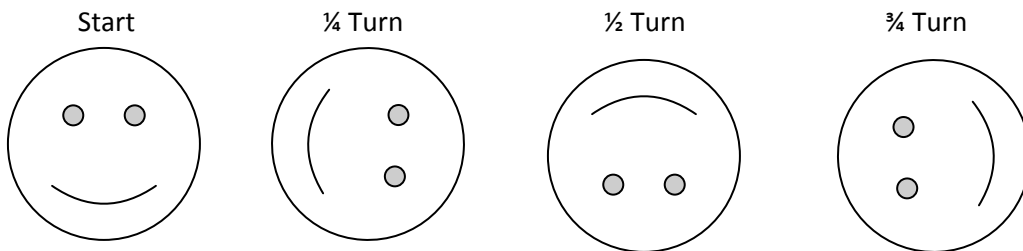
4th Grade Objective: 3.03 – Identify, predict, and describe the results of transformations of plane figures; reflections, translations, and rotations.

Lesson:

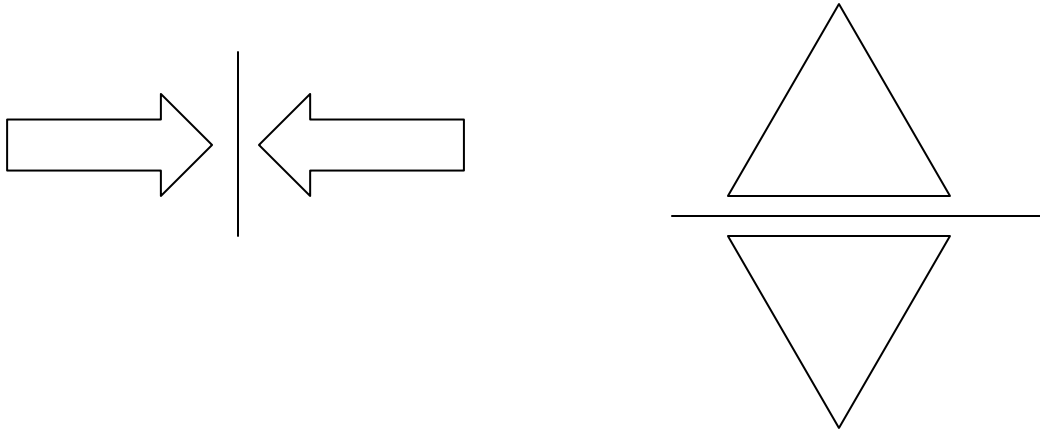
When you *slide* a figure in one or more directions, the movement is a translation.



When you *turn* a figure around a point, the movement is rotation. Figures can be rotated in a clockwise direction or counterclockwise direction. The illustration below shows a figure rotated in a clockwise direction.

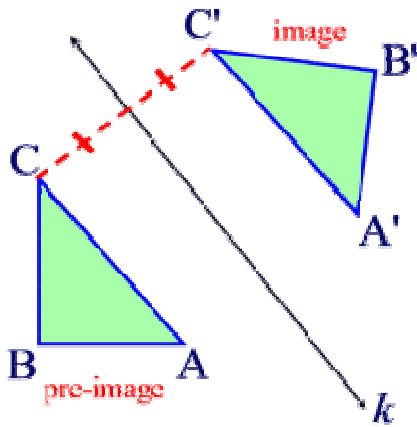


When you *flip* a figure over a line, the movement is a reflection. Think of a reflection as what the figure would look like in a mirror.

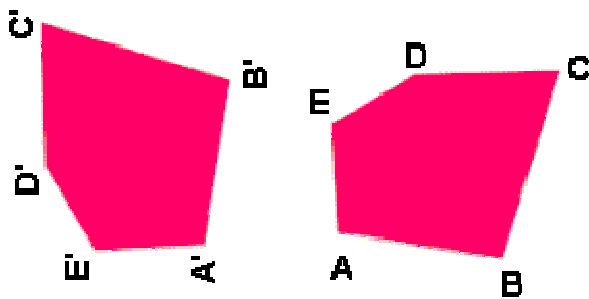


Practice:

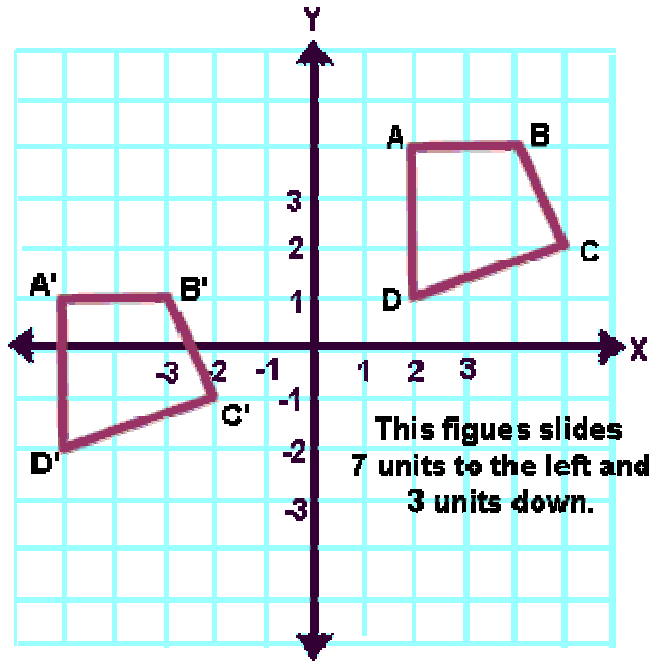
1. This is an example of a translation, rotation, or a reflection? _____



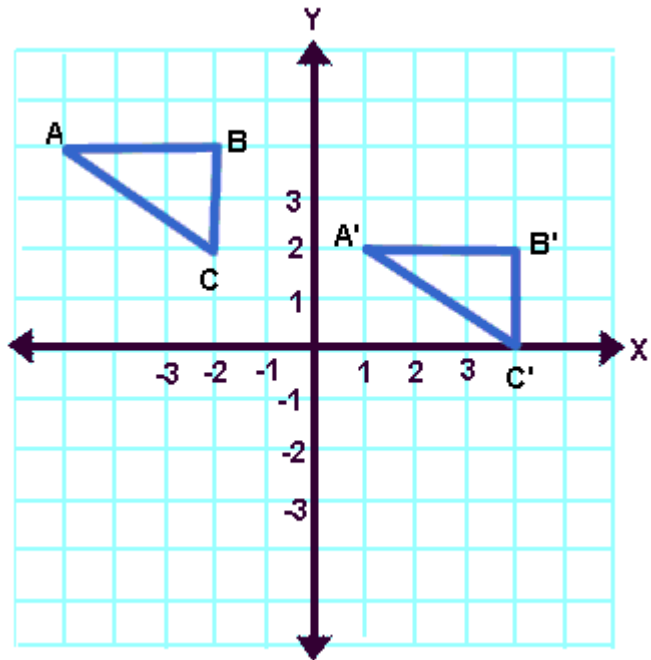
2. This is an example of a translation, rotation, or reflection? _____



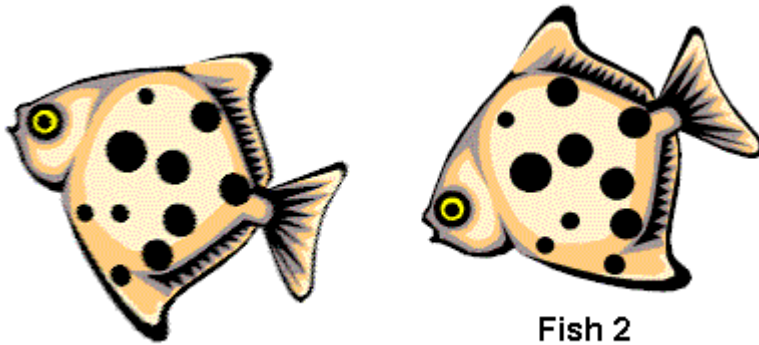
3. This is an example of a translation, rotation, or reflection? _____



4. This is an example of a translation, rotation, or reflection? _____



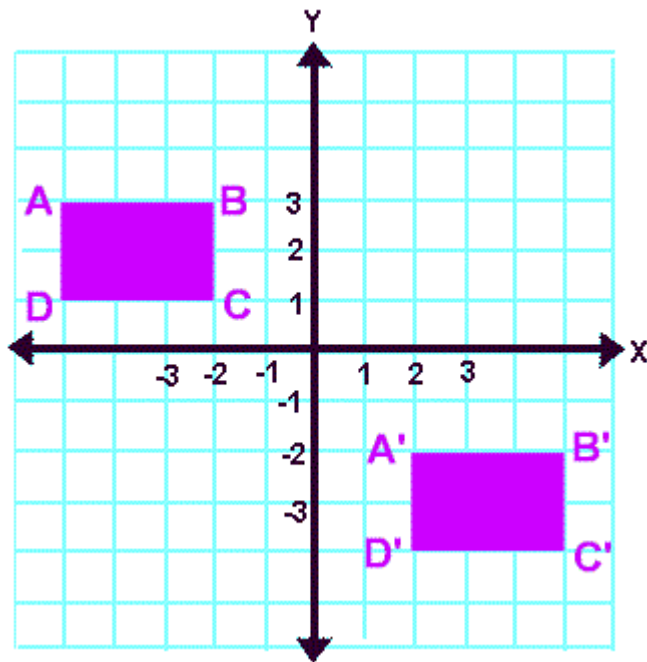
5. This is an example of a translation, rotation, or reflection? _____



Fish 1

Fish 2

6. This is an example of a translation, rotation, or reflection? _____



7. This is an example of a translation, rotation, or reflection? _____

