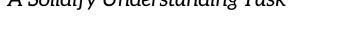
## CC0 Francesco Rolandin http://openclipart.org/detail/33781/architetto

## Lesson 3 Leap Frog

## A Solidify Understanding Task



Josh is animating a scene in which a troupe of frogs is auditioning for the Animal Channel reality show, "The Bayou's Got Talent". In this scene the frogs are demonstrating their "leap frog" acrobatics act. Josh has completed a few key images in this segment, and now needs to describe the transformations that connect various images in the scene.

For each pre-image/image combination listed below, describe the transformation that moves the pre-image to the final image.

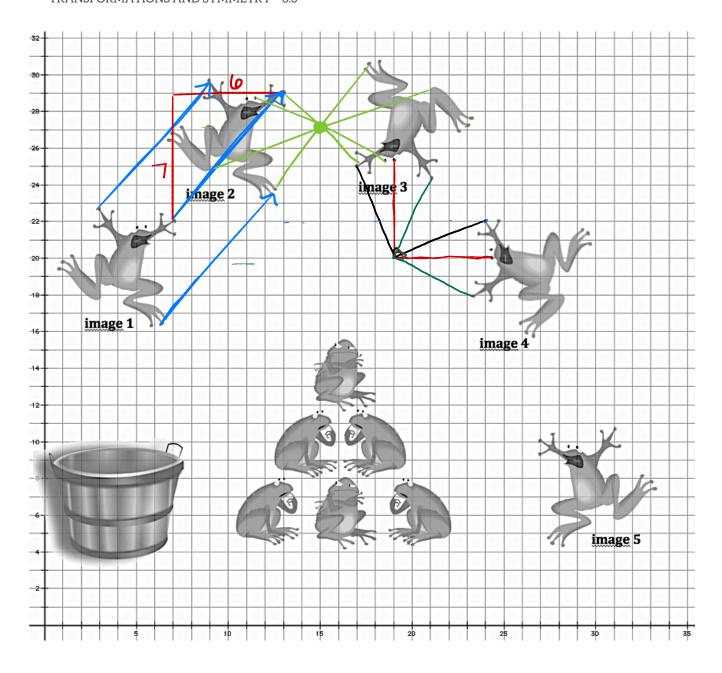
- If you decide the transformation is a rotation, you will need to give the center of rotation, the direction of the rotation (clockwise or counterclockwise), and the measure of the angle of rotation.
- If you decide the transformation is a reflection, you will need to give the equation of the line of reflection.
- If you decide the transformation is a translation you will need to describe the "rise" and "run" between pre-image points and their corresponding image points.
- If you decide it takes a combination of transformations to get from the pre-image to the final image, describe each transformation in the order they would be completed.

Pre-image	Final Image	Description
image 1	image 2	Translate up7, right $\omega$ { Vector $(x,y) \longrightarrow (x+\omega, y+7)$ { $(u,7)$ }  Rotate 180° about the point (15,27)
image 2	image 3	Rotate 180° about the point (15,27)
image 3	image 4	Rotate 90° Clockwise about the point (19,20)
image 1	image 5	Answers may vary  Translate down 12 right 20, then of transformative flect: over x=25
image 2	image 4	Translate down 7 right 11 Rotate 90° CCW about the point (24,22)

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## SECONDARY MATH I // MODULE 6 TRANSFORMATIONS AND SYMMETRY - 6.3



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