

# TransmoGrapher

## Exploration Questions

1. Pick a partner and each of you translate, reflect, and rotate a triangle as much as you want making sure you keep track of the transformations you used. Now switch computers and see if you can get your partners triangle back to its home position (also keeping track of the transformations you made). Now compare the translations you made to move the triangle with your partner's moves to get it back to its original position. Are they the same? Explain.
2. Pick a partner and each of you translate, reflect, and rotate a square as much as you want keeping track of the transformations you used. Now switch computers and see if you can get your partners square back in to its home position (also keeping track of the transformations you used). Now compare the moves you did to move the square with your partner's moves to get it back. Are they the same? Explain.
3. Pick a partner and each of you translate, reflect, and rotate a parallelogram as much as you want and keeping track of the transformations you used. Now switch computers and see if you can get your partners parallelogram back in to its home position also keeping track of the transformations you used). Now compare the moves you did to move the parallelogram with your partner's moves to get it back. Are they the same? Explain.