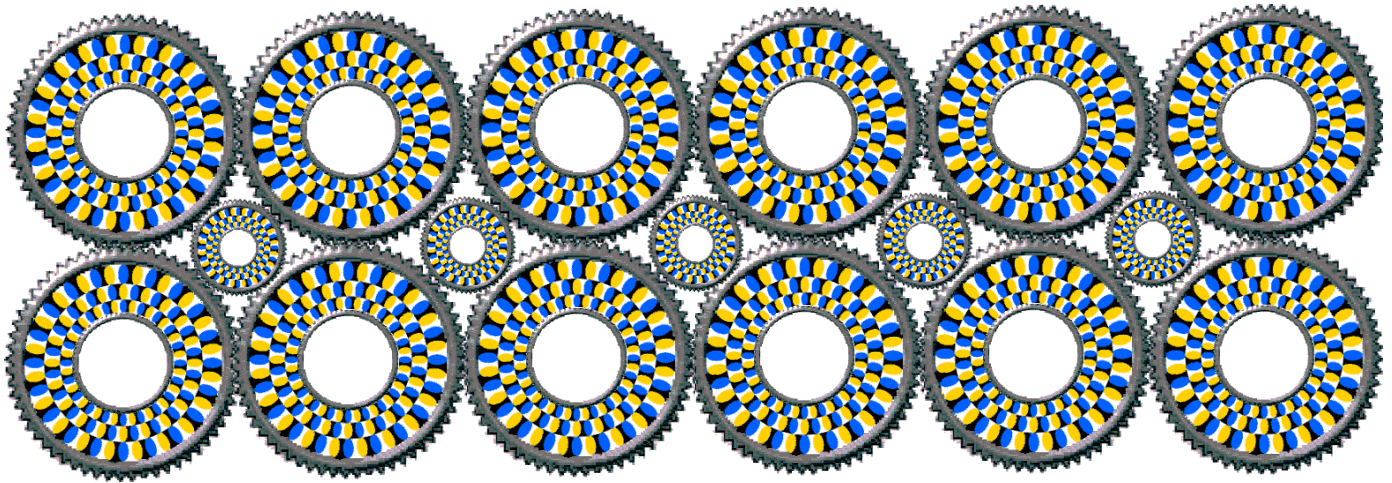


**Homework 13**  
**Due Tuesday, April 22**



1. Two gears, one with  $T_1$  teeth and the other with  $T_2$  teeth, are arranged so that they mesh and must turn together. What is the smallest number of turns required so that the same points on the two gears are in contact again?
2. Analyze your individual and the whole-class problem-solving process that you observed while we were working on Problem 2 in Homework 11 based on Schoenfeld's framework outlined in [Learning to Think Mathematically: Problem Solving, Metacognition, and Sense Making in Mathematics](#).
3. Find an interesting problem using secondary mathematics content. Describe why you found the problem interesting and discuss what problem-solving behaviors are engaged by someone working on the problem.