Rational numbers and similarity

In this activity we play a game of "what if" and see a reason that the ancient Greeks might have wanted every number to be rational.

Exploration 1 Think about plai be true?	in old plane geometry. What are some theorems that you would want to
Question 2 What are the basic	theorems involving similar triangles?
let's put ourselves into the mindset Exploration 3 Suppose that you	ning very strange. Let's suppose that every number is rational. In essence, of the ancient Greeks, before they knew that irrational numbers existed. have two triangles whose angles are congruent. Can you make a fairly at the sides are rational numbers, that shows that the sides are propor-ASA.
	have two triangles whose sides are proportional. Can you make a fairly the sides are rational numbers, that shows that the angles are congruent?

Learning outcomes: Author(s):