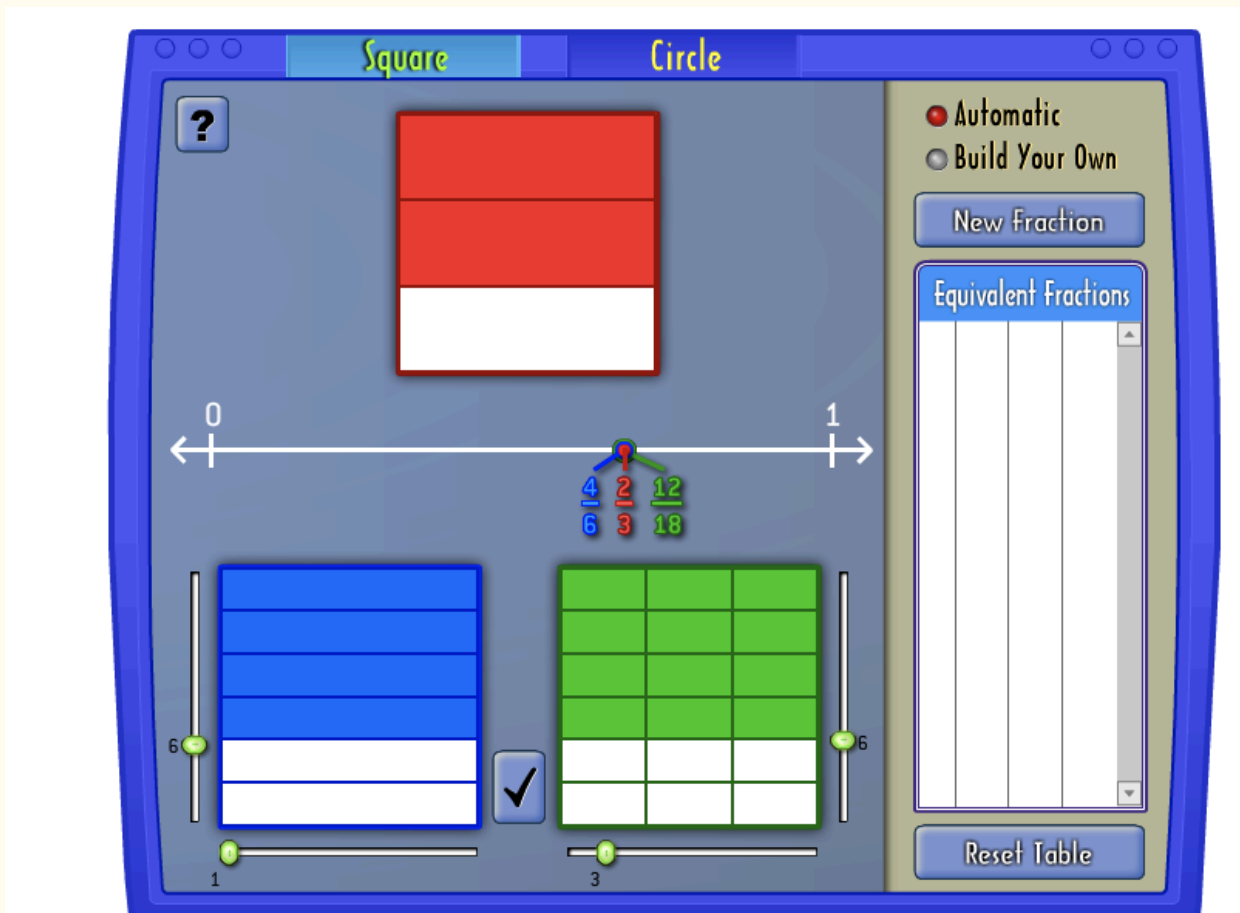# Illuminations-Equivalent Fractions

Overview

This tool lets you build equivalent fractions. It allows you to see 3 equivalent fractions at once. You can use circles or squares.

Curator: Ashley Horton

Name & Link to Tech Tool or Tool homepage: Illuminations–Equivalent Fractions

Brief Description of Tech Tool:

Technical & Cost considerations: This is a free activity, but you have to have Adobe Flash Player.

Evaluation

1. What mathematics is being learned?

NCTM Standards and Expectations

- 3-5
- Number and Operations

Create a fraction whose denominator is a prime number.

- How many equivalent fractions can you create?

Is it possible to create a fraction such that no equivalent fractions could be created with this applet?

- Find at least one.
- Can you describe the fractions for which this is possible?

Standards

This specific link has the 3-5th Grade Standards relating to JUST fractions!

Proficiency Strands

- **conceptual understanding - They would be able to understand how and why fractions are equivalent**
- **strategic competence**
- **productive disposition**

--This will help them with fluency of equivalent fractions.

2. How is the mathematics represented?

The mathematics being presented is a virtual manipulative that gives you feedback right away. It helps you create different equivalent fractions by letting you change the numerator and denominators.

3. What role does technology play?

The unique contribution the technology makes in facilitating learning is it connects fractions with number lines and gives you instant feedback. You can always see where on the number line the fraction you made is.

4. How might the technology fit or interact with the social context of learning?

I would say for this piece of technology I would use individuals. You want students to explore their own equivalent fractions by manipulating the fractions themselves. It would be cool if you could some how make it a race between two individuals.

5. Additional Comments

(anything else you want to comment on)