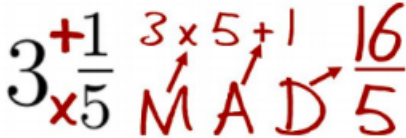
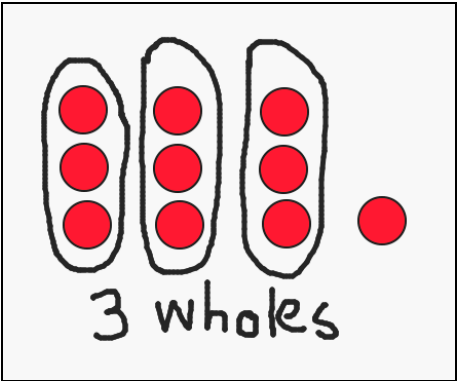


Maybe You Don't Need to Teach the Procedure

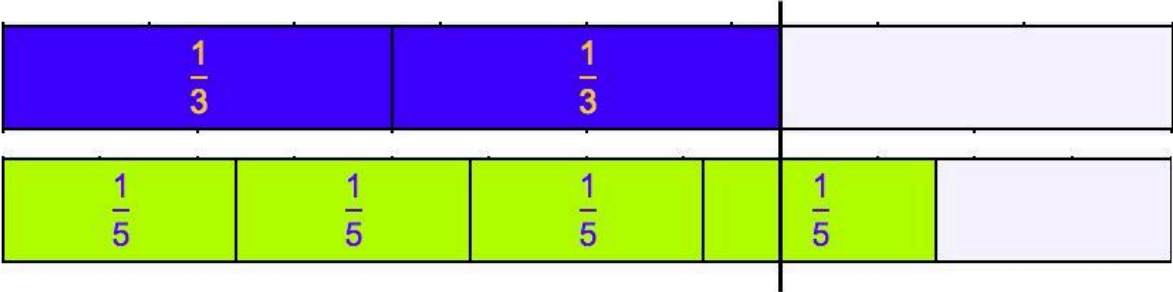
with Christine King (christine@ckinged.com)

Strategies Commonly Taught without Understanding:

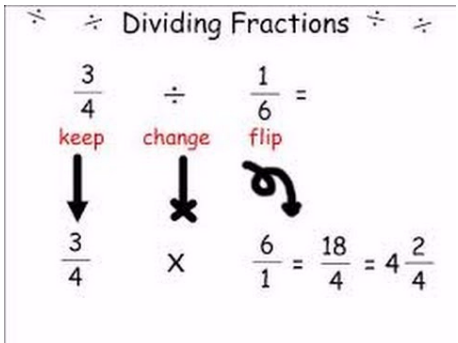
Mixed Numbers MAD

Strategy without Understanding	Strategy Concretely	Strategy Using Equivalent Equations
	 Write the mixed number.	

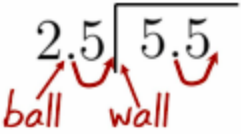
Cross Multiplication

Strategy without Understanding	Concretely/Common Denominators
	

Keep, Change, Flip (Division of Fractions)

Strategy without Understanding	Common Denominators	Unit Rate
 Dividing Fractions $\frac{3}{4} \div \frac{1}{6} =$ keep change flip $\frac{3}{4} \times \frac{6}{1} = \frac{18}{4} = 4 \frac{2}{4}$		

Dividing Decimals

Strategy without Understanding	Equivalent Fraction	Equivalent Equation
		

Resources:

- Nixhetricks.com
- 12 Math Rules That Expire in the Middle Grades by Karen S. Karp, Sarah B. Bush, and Barbara J. Dougherty
- 13 Rules That Expire (Elementary School) by Karen S. Karp, Sarah B. Bush, and Barbara J. Dougherty