Applied Statistics



Domain	Functions and Modeling Explore expressions, functions, and models to describe numbers or relationships.	
Cluster		
Standard(s)	M.ASHS.18	Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions. Instructional Note: This standard requires the general division algorithm for polynomials.

Content Examples

- » Multiplying and dividing rational expressions: monomials
- » Multiplying rational expressions
- » Dividing rational expressions
- » Adding and subtracting rational expressions: like denominators
- » Adding rational expressions: unlike denominators
- » Subtracting rational expressions: unlike denominators

Relevant Content

» General division algorithm: $f(x) = d(x) \times q(x) + r(x)$, where f(x) is a polynomial, d(x) is the divisor, q(x) is the quotient, and r(x) is the remainder

Vocabulary

» Rational expression: A quotient of two polynomials with a non-zero denominator

Rewrite Simple Rational Expressions Equivalent Rational Expressions Multiplying and Dividing Rational Expressions Adding and Subtracting Rational Expressions

Assessment Links or Tasks

- » Open Middle dividing rational expressions: https://www.openmiddle.com/dividing-rational-expressions/
- » Combined fuel efficiency (rewrite rational expressions): https://tasks.illustrativemathematics.org/content-standards/HSA/APR/D/6/tasks/825

