### Operations and Real Numbers

Robert J. McKeown, PhD, CFA

York University

Pre-Calculus Mathematics for Business and Economics

## **Sub-Topics**

- 1. Double-sided equations
- 2. Lowest Common Denominator
- 3. Fractions
- 4. Exponents
- 5. Can we divide by zero?

### **Double-sided equations**: Solve for v (the unknown variable):

$$\frac{8}{5} = \frac{12}{v}$$

#### Lowest Common Denominator: solve:

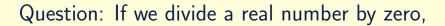
$$\left(\frac{9}{-5}\right) - \left(\frac{9}{2}\right)$$

#### Fraction Division: solve:

$$\left(\frac{5}{14}\right) \div \left(\frac{7}{8}\right)$$

**Exponents**: write your answers as fractions (with no exponent)

$$\left(\frac{4^2}{-3}\right) = -\left(\frac{5}{4}\right)^3 =$$



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- C) the answer is always infinity  $(\infty)$ .
- D) the answer is unknown.