

Math4010 Midterm 3 Reference Page

These two types of decimals convert to fractions.

1. _____
2. _____

Proportion:

$$\frac{a}{b} = \frac{c}{d}$$

Fraction division: $\frac{a}{b} \div \frac{c}{d}$ can be thought of as answering the question “how many groups of $\frac{c}{d}$ are in $\frac{a}{b}$.”

Percent problems:

_____ is _____ % of _____
part whole

(when converting to equation, is turns into = and of turns into multiplication)

Techniques to convert

1. fraction to decimal
 - (a) long division (always works)
 - (b) “2s and 5s technique” (only works when the only factors in the denominator are 2s or 5s)
2. decimal to fraction
 - (a) If it's terminating, just write number (w/o decimal) in numerator and the denominator will be 10^b where b is the number of digits past the decimal
 - (b) If it's the other type of decimal, we can do that technique where we let n = the number and go from there.