

1. Reducing Fractions

1.1 Arithmetic Expressions

Definition 1.1.1 – Reduced Fraction. A fraction of the form $\frac{m}{n}$, where $n \neq 0$, is said to be in its reduced form if the $\gcd(m, n) = 1$

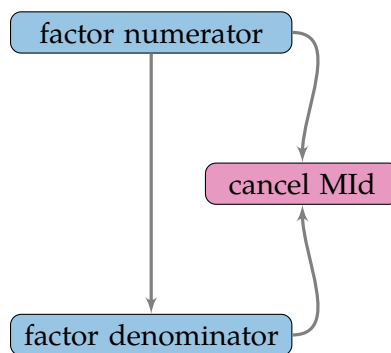


Figure 1.1: Reducing Fractions Workflow

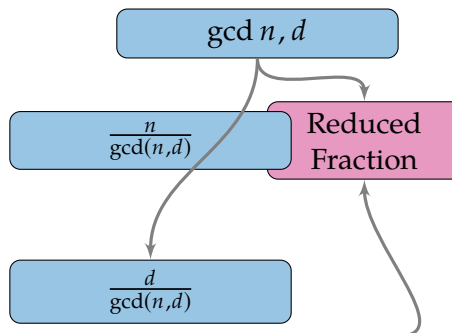


Figure 1.2: Using the $\gcd(n, d)$ to reduce the fraction $\frac{n}{d}$ Workflow