



Math Study Strategies

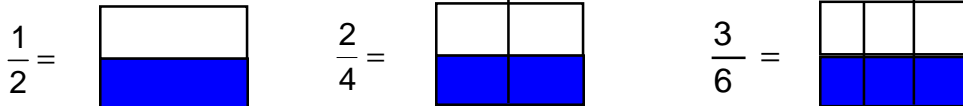
Math for Automotives

Equivalent Fractions

Fractions that name the same part of a whole are **equivalent**

Examples

$\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{6}$, are equivalent fractions since



Note:

When given a fraction, you can find an equivalent fraction by multiplying or dividing the numerator and denominator by the same whole number other than 0.

Examples

$$\frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{15}{18}, \quad \text{so} \quad \frac{5}{6} \quad \text{is equivalent to} \quad \frac{15}{18}.$$

$$\frac{24}{28} = \frac{24 \div 4}{28 \div 4} = \frac{6}{7}, \quad \text{so} \quad \frac{24}{28} \quad \text{is equivalent to} \quad \frac{6}{7}.$$

Lowest Terms

In the example above, $\frac{6}{7}$ is in the **lowest terms** because 1 is the only whole number that will divide both 6 and 7 **evenly**.