



# Math Study Strategies

## Math for Sewing

### Concept of Fractions

A fraction is part of a whole unit.

- $\frac{1}{2}$  Indicates how many parts are being used.
- $\frac{2}{2}$  Indicates the number of parts that make the whole.

### Types of fractions

Proper Fractions	Improper Fractions	Mixed numbers
The numerator is smaller than the denominator The fraction is less than one whole unit.	The numerator is larger than or equal to the denominator The fraction is greater than or equal to one whole unit.	The sum of at least one whole unit and a fraction
$\frac{1}{2}$ $\frac{2}{5}$ $\frac{6}{53}$	$\frac{3}{2}$ $\frac{5}{3}$ $\frac{8}{7}$	$3\frac{1}{4}$ $1\frac{1}{4}$ $88\frac{2}{5}$

### Reducing fractions

To reduce a fraction to its lowest terms, divide the numerator and denominator by the same number.

$$\frac{4}{12} \div \frac{4}{4} = \frac{1}{3} \qquad \frac{5}{15} \div \frac{5}{5} = \frac{1}{3}$$