

Fraction/Decimal/Percent Equivalent Values – Special cases

Here is a table of some common percents that have repeating decimal representations. It is best to use the fraction representation when working with these values.

For Math 026, you might just want to memorize these values. See page 70 (end of Unit 2) in your textbook.

Fraction	Decimal	Percent
$1/3 = 2/6$	$0.33\bar{3}$	$33\frac{1}{3}\%$
$2/3 = 4/6$	$0.66\bar{6}$	$66\frac{2}{3}\%$
$1/6$	$0.16\bar{6}$	$16\frac{2}{3}\%$
$5/6$	$0.83\bar{3}$	$83\frac{1}{3}\%$

For Math 052:

To convert percent to fraction, first observe that the mixed number percent can be written as an improper fraction. For example:

$$33\frac{1}{3}\% = \frac{100}{3}\%$$

Then divide the mixed number percent by 100 to get the fraction. Example:

$$\frac{\frac{100}{3}}{100} = \frac{100}{3} \times \frac{1}{100} = \frac{1}{3}$$