

Decimals to Fractions

Terminating

* denominator is always a power of 10
(10, 100, 1000, etc)

* always simplify (reduce)

$$0.3 = \frac{3}{10}$$

$$-0.03 = -\frac{3}{100}$$

$$-0.003 = -\frac{3}{1000}$$

$$2.45 = 2 \frac{45}{100} = 2 \frac{9}{20}$$

$$-4.1 = -4 \frac{1}{10}$$

$$-1.64 = -1 \frac{64}{100} = -1 \frac{16}{25}$$

Repeating - put the number over 9, or 99, or 999 etc.

$$0.\overline{2} = \frac{2}{9}$$

$$0.\overline{23} = \frac{23}{99}$$

$$0.\overline{123} = \frac{123}{999} = \frac{41}{333}$$