

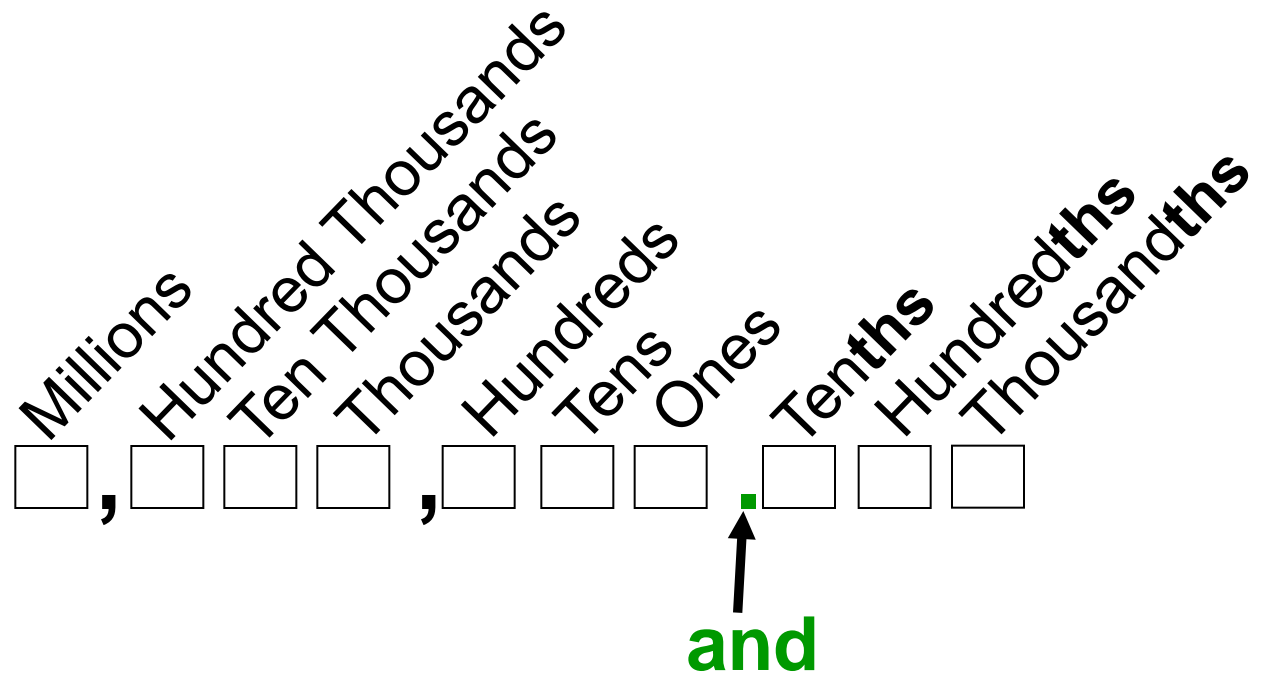
2.1 Decimals and Fractions

***Objective: To convert fractions to decimals and
decimals to fractions***



Place Value

Decimal - A decimal point separates a number into two parts: the whole number and the decimal part



Write out each decimal.

1. 2.6

two **and** six tenths

2. 5.064

five **and** sixty-four thousandths

To Write a Decimal as a Fraction

<u>Decimal</u>	<u>Read it correctly!!</u>	<u>Fraction</u>
0.17	Seventeen hundredths	$\frac{17}{100}$
0.043	Forty-three thousandths	$\frac{43}{1000}$
0.2	Two tenths	$\frac{2}{10} \div 2 = \frac{1}{5}$
0.25	Twenty-five hundredths	$\frac{25}{100} \div 25 = \frac{1}{4}$
2.6	Two AND six tenths	$2\frac{6}{10} \div 2 = 2\frac{3}{5}$

To Convert a Fraction to a Decimal

Step 1: Divide the numerator by the denominator

Example

$$1) \frac{3}{4}$$

.75

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.00} \\ \underline{0} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$



2) $\frac{1}{3}$

$$\begin{array}{r} 0.33 \\ 3 \overline{) 1.00} \\ \underline{0} \\ 10 \\ \underline{9} \\ 10 \\ \underline{9} \\ 1 \end{array}$$

$$0.\overline{3}$$

3) $\frac{3}{11}$

$$0.\overline{27}$$

4) $6\frac{9}{20}$

$$6.45$$