

Decimal Place Value

9.123

1. Read the whole number.
2. Identify the last decimal place to the right (thousandths).
3. Read the decimal portion.

Nine-and-one-hundred-twenty-three-thousandths.

Decimal Place Value

9.123

1. Place: Hundredths
2. Value: 0.02
3. Expanded form:
 $9 + 0.1 + 0.02 + 0.003$

x and ÷ by Powers of 10

1. Is the factor in standard form (10,000) or exponential form (10^4)?
 1. If standard form, count the zeros.
 2. If exponential form, use the exponent.
 2. Move the decimal by the number of zeros or the power of 10.
 3. Move the decimal to the RIGHT for multiplication.
 4. Move the decimal to the LEFT for division.
 5. Fill in any zeros, if necessary.
- Examples:
- A. $6.789 \times 100 = 678.9$
 B. $27.01 \div 10^3 = 0.02701$

Comparing Decimals

1. Stack up the numbers and line up the DECIMAL.
2. Compare the digits from LEFT to RIGHT.
3. Use the proper symbol.

Example

	31.456	31.484
31.456		
31.484	so:	$31.456 < 31.484$