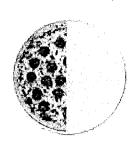
Date:	

1.12 Fractions, Decimals, Percent

Decimals, fractions and percents are just different ways of showing the same value.

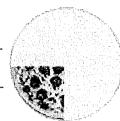


A half can be written as:

A fraction: 1/2

A decimal: 0.50

A percent: 50%



A quarter can be written as:

A fraction: $\sqrt{4}$

A decimal: 0.25

A percent: 25./.

Conversions:

Fraction to a Decimal:

Divide (long division)

Decimal to Fraction:

1. Write the decimal : 1

3. Reduce to lowest terms (divide by common factor)

4. Pepresent as a mixed fraction if numerator, denominator

Convert 0.75 to a fraction = 0.75

 $\frac{15}{(\infty)} \stackrel{\sim}{\sim} 25$

3

Fraction to percent

divide

2. multiply by 100

Convert $\frac{3}{8}$ to a percent

\$ = 0.375

0.375 × 100 = 37.5 %

Percent to a Fraction

- 1. Convert to a decimal (divide by (00))
- 2. Write the decimal by 1
- 3. multiply top and bottom by
- if Reduce (Simplify) to lowest terms
- 5. Represent as a mixed fraction where necessary,

Convert 80% to a fraction

$$80^{\circ}/.=0.80=0.80$$

$$= 80$$

$$= 4$$

From Decimal to Percent

Multiply by 100, and add a "%" sign.

0.125 0.1.2.5 12.5%

The easiest way to multiply by 100 is to move the decimal point 2 places to the right:

From Percent to Decimal

Divide by 100, and remove the "%" sign.

75%

0.75

0.75

The easiest way to divide by 100 is to move the decimal point 2 places to the left: