

Percents, Fractions, Decimals

Percent: A rate per 100. Like 17 out of 100 would be 17%. 32 out of 100 would be 32%.

Percents as fractions: To write a percent as a fraction, simply put it the percentage over 100. 18% as a fraction would be $\frac{18}{100}$. If we divide the numerator and denominator by 2, we get the simplified fraction of $\frac{9}{50}$.

Percents as a decimal: To write a percent as a decimal, write it as a fraction over 100, then use place value to write the decimal equivalent to the fraction. For example, 38% would be $\frac{38}{100}$ which is read as "thirty-eight hundredths." This is 0.38 as a decimal. 225% would be $\frac{225}{100}$ which would equal 2.25. 6% would be $\frac{6}{100} = 0.06$.

Decimals as a percent: To write a decimal as a percent, write the decimal as a fraction using place value. Then re – write the fraction to have a denominator of 100. The numerator is your percentage. For example, 0.6 would be read as "six tenths," which as a fraction is $\frac{6}{10}$.

Multiplying 10 by 10 gives us 100, so $\frac{6}{10} = \frac{6 \cdot 10}{10 \cdot 10} = \frac{60}{100} = 60\%$.