Changing Percents to Decimals

To change a percent to a decimal, drop the percent sign (%) and move the decimal point two places to the *left*. You may have to add zeros.

EXAMPLES	Percent		Decimal
	6%	= 06	= 0.06
	30%	= 30	= 0.3
	150%	= 150	= 1.5
	0.9%	= 009	= 0.009
	$37\frac{1}{2}\%$	$= 37\frac{1}{2}$	$= 0.37\frac{1}{2}$

Write each percent as a decimal.

1. 20% = 35% = 8% = 60% =

2. 3.5% = 0.4% = 0.03% = 21.6% =

3. $62\frac{1}{2}\%$ = $6\frac{2}{3}\%$ = 2.8% = 19% =

4. 7% = 1.5% = 200% = 14.2% =

5. See how quickly you can fill in the following tables. You will save time later if you memorize these common percents and decimals.

Percent	Decimal
50%	
25%	
75%	
20%	

Percent	Decimal
5%	
1%	
100%	
80%	

Percent	Decimal
37.5%	
62.5%	
87.5%	
12.5%	

Changing Fractions to Percents

There are two ways to change a fraction to a percent as shown below.

EXAMPLE Change $\frac{3}{4}$ to a percent.

Method 1 Multiply fraction by 100%. $\frac{3}{\cancel{4}_{1}} \times \frac{\overset{25}{\cancel{100\%}}}{1} = \frac{75\%}{1} = \mathbf{75\%}$

Method 2 Divide the denominator of the fraction into the numerator and move the point two places to the right. $\frac{3}{4} = 4\overline{)3.00}^{.75} = \mathbf{75\%}$

Write each fraction as a percent.

1. $\frac{2}{5} =$ $\frac{1}{4} =$ $\frac{1}{3} =$ $\frac{3}{8} =$

2. $\frac{6}{25} =$ $\frac{2}{3} =$ $\frac{5}{6} =$ $\frac{1}{8} =$

3. $\frac{9}{10} =$ $\frac{7}{8} =$ $\frac{11}{20} =$ $\frac{5}{12} =$

4. $\frac{1}{6} =$ $\frac{4}{5} =$ $\frac{7}{10} =$ $\frac{1}{12} =$

5. $\frac{5}{8} =$ $\frac{4}{9} =$ $\frac{3}{7} =$ $\frac{9}{20} =$

6. $\frac{4}{25} =$ $\frac{3}{10} =$ $\frac{3}{5} =$ $\frac{9}{50} =$