## **EXAMPLE**

Write the percent as a fraction: a. 98% b. 5%

a. 
$$98\% = \frac{98}{100}$$
 Definition of percent  $= \frac{49}{50}$  Simplify.

**b.** 
$$5\% = \frac{5}{100}$$
 Definition of percent  $= \frac{1}{20}$  Simplify.

To write a fraction as a percent, you may be able to rewrite the fraction using a denominator of 100. If the denominator of the fraction is not a factor of 100, you can first write the fraction as a decimal and then as a percent.

## **EXAMPLE**

Write the fraction as a percent: a.  $\frac{2}{5}$ 

**a.** 
$$\frac{2}{5} = \frac{2(20)}{5(20)}$$
 Write as a fraction with denominator 100. **b.**  $\frac{5}{8} = 0.625$  Write as a decimal.  $= \frac{40}{100} = 40\%$  Write as a percent.

The table below gives commonly used fractions, decimals, and percents written in increasing order.

$\frac{1}{100} = 0.01 = 1\%$	$\frac{1}{16} = 0.0625 = 6.25\%$	$\frac{1}{10} = 0.1 = 10\%$	$\frac{1}{8} = 0.125 = 12.5\%$
$\frac{1}{5} = 0.2 = 20\%$	$\frac{1}{4} = 0.25 = 25\%$	$\frac{1}{3}=0.\overline{3}\approx 33.3\%$	$\frac{3}{8} = 0.375 = 37.5\%$
$\frac{2}{5} = 0.4 = 40\%$	$\frac{1}{2} = 0.5 = 50\%$	$\frac{3}{5} = 0.6 = 60\%$	$\frac{5}{8} = 0.625 = 62.5\%$
$\frac{2}{3}=0.\overline{6}\approx 66.7\%$	$\frac{3}{4} = 0.75 = 75\%$	$\frac{4}{5} = 0.8 = 80\%$	$\frac{7}{8}$ = 0.875 = 87.5%

## **PRACTICE**

Write the percent as a decimal and as a fraction.

Write the decimal as a fraction and as a percent.

Write the fraction as a decimal and as a percent. Round decimals to the nearest thousandth. Round percents to the nearest tenth of a percent.

21. 
$$\frac{3}{16}$$

**22.** 
$$\frac{1}{9}$$

23. 
$$\frac{61}{100}$$

**24.** 
$$\frac{3}{20}$$

**25.** 
$$\frac{19}{100}$$

**26.** 
$$\frac{17}{25}$$

**27.** 
$$\frac{9}{25}$$

**28.** 
$$\frac{5}{6}$$

**29.** 
$$\frac{4}{7}$$

**30.** 
$$\frac{5}{12}$$