## Percents Greater Than 100 and Less Than 1

All percents can be written as fractions in simplest form and as decimals. Percents greater than 100\% represent amounts greater than one whole and can be written as improper fractions and as decimals greater than 1. Percents less than 1\% represent amounts less than $\frac{1}{100}$ of the whole.
Write $\mathbf{2 7 5 \%}$ as a fraction in simplest form and as a decimal.
Since percent is parts per hundred, write the percent as a fraction with a denominator of 100.

Simplify the fraction.

$$
\begin{aligned}
& \frac{275}{100} \\
& \frac{275}{100}=\frac{275 \div 25}{100 \div 25}=\frac{11}{4}=2 \frac{3}{4}
\end{aligned}
$$

To write the number as a decimal, divide the numerator by the denominator.
So, $275 \%=2 \frac{3}{4}=2.75$
$275 \div 100=2.75$
Write $\frac{1}{5} \%$ as a fraction in simplest form and as a decimal.

Write the fraction in the percent as a decimal.
Write the percent as a fraction with a denominator of 100.
Write the numerator as a whole number.

Simplify the fraction.
Divide the fraction to write the number as a decimal.
$\frac{1}{5} \%=0.2 \%$
$\frac{0.2}{100}$
$\frac{0.2}{100}=\frac{0.2 \times 10}{100 \times 10}=\frac{2}{1,000}$
$\frac{2}{1,000}=\frac{2 \div 2}{1,000 \div 2}=\frac{1}{500}$
$\frac{1}{500}=0.002$

So, $\frac{1}{5} \%=\frac{1}{500}=0.002$.

Write each percent as a fraction and as a decimal. Write fractions in simplest form.

1. $137 \%$ $\qquad$ ; $\qquad$ 2. $115 \%$ $\qquad$ ; $\qquad$
2. $222 \%$ $\qquad$ ; $\qquad$
3. $182 \%$
$\qquad$ ;
4. $500 \%$ $\qquad$ ; $\qquad$
$\qquad$ 6. $450 \%$ $\qquad$ ; $\qquad$
5. $0.4 \%=\frac{\square}{100}=\frac{\square 10}{100 \times 10}=$
 Simplify: $\bar{\square}$; Decimal: $\qquad$
6. $\frac{3}{4} \% \quad=\frac{0.75}{100}=\frac{\square}{100 \times 100}=\frac{\square 100}{\square}$ Simplify:

7. Writing to Explain Caryn and Alfonso bought school supplies. Caryn spent $130 \%$ of the amount Alfonso spent. She said that she spent 1.3 times the amount that Alfonso spent. Is Caryn correct? Explain.
