### 7.4 Rename Decimals as Fractions

To rename a decimal as a fraction, follow these steps:

1. Read the given decimal.
0.45 = forty-five hundredths
2. Determine the denominator. The denominator is 100 .
3. Write an equivalent fraction. forty-five hundredths $=\frac{45}{100}$
4. Use the GCF to simplify if necessary.

$$
\frac{45}{100}=\frac{45}{100} \div 5=5=\frac{9}{20}
$$

Example: Write each decimal as a fraction or mixed number in simplest form.
1.) 12625

$$
\begin{aligned}
\frac{625}{1000} \div 5 & =\frac{125 \div 5}{200 \div 5} \\
& =\frac{25 \div 5}{40 \div 5}=\frac{5}{8}
\end{aligned}
$$

2.) 0003

$12 \frac{5}{8}$

Example: Write each decimal as a fraction or mixed number in simplest form.
3.)

$$
\text { 3.) } \begin{aligned}
\frac{325}{025} \div 5 & =\frac{65}{2000 \div 5} \div 5 \\
& =\frac{13}{40}
\end{aligned}
$$

4.) 19108

$$
\begin{aligned}
& \frac{108 \div 2}{1000 \div 2}=\frac{54 \div 2}{500 氵 2} \\
&=\frac{27}{250} \\
& 4 \frac{27}{250}
\end{aligned}
$$

Example: Write each decimal as a fraction or mixed number in simplest form.
5.) 0.925
6.) 0.161

$$
\frac{925}{1000} \div 25=\frac{37}{40}
$$

$$
\frac{161}{1000}
$$

Example: Write each decimal as a fraction or mixed number in simplest form.
7.) 1.09

$$
1 \frac{9}{100}
$$

8.) 8.001

$$
8 \frac{1}{1000}
$$

9.) A truck weighs 1132 tons more than another truck. Write the difference in weight as a mixed number in simplest form.

$$
\frac{32 \div 2}{100 \div 2}=\frac{16 \div 2}{50 \div 2}=\frac{8}{25}
$$

$$
1 \frac{8}{25}
$$

