M2·L26 - Dividing Decimals

Fluency =

$1.2 \div 3 = 0.4$	$8 \div 4 = 2$
$1.2 \div 30 = 0.04$	$8 \div 40 = 0.2$
$9.6 \div 3 = 3.2$	$0.45 \div 5 = 0.09$
$9.6 \div 30 = 0.32$	$0.45 \div 50 = 0.009$

2+2 = 3+1

$$\begin{array}{r} 28 \text{ r } 8 \\ 32\overline{)904} \\ 64\downarrow \\ 264 \\ -256 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 28.25 \\ 32\overline{)904.00} \\ -64\downarrow \\ 264 \\ -256\downarrow \\ 80 \\ -64\downarrow \\ 160 \\ -160 \\ \hline 0 \end{array}$$

$28 \text{ r } 8 = 28.25$

$28\frac{8}{32} \div 8 = 28\frac{25}{100} \div 25$

$28\frac{1}{4} = 28\frac{1}{4}$

$$\begin{array}{r} 28 \text{ r } 8 \\ 16\overline{)456} \\ 32\downarrow \\ 136 \\ -128 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 28.5 \\ 16\overline{)456.0} \\ 32\downarrow \\ 136 \\ -128\downarrow \\ 80 \\ -80 \\ \hline 0 \end{array}$$

$28 \text{ r } 8 = 28.5$

$28\frac{8}{16} \div 8 = 28\frac{5}{10} \div 5$

$28\frac{1}{2} = 28\frac{1}{2}$

$$
\begin{array}{r}
32.1 \\
26\overline{)834.6} \checkmark \\
-78\downarrow \\
\hline
54 \\
-52\downarrow \\
\hline
26 \\
-26 \\
\hline
0
\end{array}
$$

$$
\begin{array}{rr}
26 & 26 \\
\times\ 2 & \times\ 3 \\
\hline
52 & 78
\end{array}
$$

$$
\begin{array}{r}
\overset{\times 10}{} \\
32.1 \\
\times\ 26 \\
\hline
1926 \\
+6420 \\
\hline
834.6 \checkmark
\end{array}
\quad \div 10
$$

$$
\begin{array}{r}
1.24 \\
39\overline{)48.36} \checkmark \\
39\downarrow \\
\hline
93 \\
-78\downarrow \\
\hline
156 \\
-156 \\
\hline
0
\end{array}
$$

$$
\begin{array}{rrrr}
1 & 2 & 3 & \overset{\times 100}{} \\
39 & 39 & 39 & 1.24 \\
\times\ 2 & \times\ 3 & \times\ 4 & \times\ 39 \\
\hline
78 & 117 & 156 & 1116 \\
 & & & +3720 \\
 & & & \hline
 & & & 48.36 \checkmark
\end{array}
\quad \div 100
$$

$$
\begin{array}{r}
0.21 \\
41\overline{)8.61} \checkmark \\
82\downarrow \\
\hline
41 \\
-41 \\
\hline
0
\end{array}
$$

$$
\begin{array}{r}
41 \\
\times\ 2 \\
\hline
82
\end{array}
$$

$$
\begin{array}{r}
\overset{\times 100}{} \\
0.21 \\
\times\ 41 \\
\hline
21 \\
840 \\
\hline
861 \checkmark
\end{array}
\quad \div 100
$$

Application Problem

$$\begin{array}{r} 16 \text{ r } 9 \\ 12\overline{)201} \\ 12\downarrow \\ \hline 81 \\ -72 \\ \hline 9 \end{array} \quad = \quad \begin{array}{r} 16 \text{ r } 9 \\ 45\overline{)729} \\ 45\downarrow \\ \hline 279 \\ -270 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 16.75 \\ 12\overline{)201.00} \\ 12\downarrow \\ \hline 81 \\ -72\downarrow \\ \hline 90 \\ -84\downarrow \\ \hline 60 \\ -60 \\ \hline 0 \end{array} \quad > \quad \begin{array}{r} 16.2 \\ 45\overline{)729.0} \\ 45\downarrow \\ \hline 279 \\ -270\downarrow \\ \hline 90 \\ -90 \\ \hline 0 \end{array}$$