

## Remainders as Decimals

When you want to write your remainder as a decimal, you add a zero and continue to divide until you get a remainder of zero or you round your answer according to your instructions. If there is no decimal, you must add a decimal before you add a zero.

$$\begin{array}{r}
 25.2 \\
 5 \overline{) 126.0} \\
 \underline{-10} \phantom{0} \\
 26 \phantom{0} \\
 \underline{-25} \phantom{0} \\
 10 \phantom{0} \\
 \underline{-10} \\
 0
 \end{array}$$

### You Try:

Find the quotient and write the remainder as a decimal.

1)  $154 \div 4 =$

2)  $121 \div 8 =$

3)  $215 \div 20 =$

4)  $45 \div 8 =$

5)  $2856 \div 30 =$

6)  $222 \div 15 =$



### You Try:

1)  $5 \overline{) 965}$

2)  $10 \overline{) 187}$

3)  $123 \div 12 =$

4)  $708 \div 15 =$

5)  $\frac{7694}{3} =$

6)  $15 \overline{) 30465}$

# Long Division Additional Practice

Find the quotient.

1)  $308 \div 22 =$

2)  $286 \div 11 =$

3)  $1064 \div 38 =$

4)  $1296 \div 18 =$

5)  $130 \div 20 =$

6)  $894 \div 8 =$

7)  $5009 \div 10 =$

8)  $894 \div 9 =$

# Long Division Error Analysis

Sally is a silly little girl who makes mistakes! In Column #1, analyze her work and circle her mistake. In Column #2, explain what she did wrong. In Column #3, show how Silly Sally should work out the problem correctly. Show ALL work!

Silly Sally's Work (Circle her mistake):	What did Silly Sally do wrong?	Show Silly Sally how it's done! (Show ALL steps!)
$\begin{array}{r} 212 \\ 12 \overline{)384} \\ \underline{-24} \phantom{0} \\ 144 \\ \underline{-144} \\ 000 \end{array}$		
$\begin{array}{r} 86 \\ 10 \overline{)8600} \\ \underline{-80} \phantom{00} \\ 60 \\ \underline{-60} \\ 00 \end{array}$		
$\begin{array}{r} 28 \frac{31}{10} \\ 31 \overline{)878} \\ \underline{-62} \phantom{0} \\ 258 \\ \underline{-248} \\ 10 \end{array}$		