Name _____   Date _____

Beginning Long Division - Guided Lesson Explanation

Explanation to #1

The first digit is equal to 5. Start with the first digit. Divide the hundreds.

$$
\begin{array}{r}
1 \\
5\,|\,\overline{5\,5\,3} \\
-5 \\
\hline
0
\end{array}
$$

Divide: $5 \div 5$

Multiply: 1×5
Subtract: $5 - 5$

Bring down the tens. Divide the tens.

$$
\begin{array}{r}
1\,1 \\
5\,|\,\overline{5\,5\,3} \\
5 \\
\hline
0\,5 \\
-5 \\
\hline
0
\end{array}
$$

Divide: $5 \div 5$

Multiply: 1×5
Subtract: $5 - 5$

Bring down the ones. Divide the ones.

$$
\begin{array}{r}
1\,1\,0 \\
5\,|\,\overline{5\,\;5\,\;3} \\
5 \\
\hline
0\,5 \\
-\,5 \\
\hline
0\,3 \\
3 \\
\hline
0
\end{array}
$$

Divide: $3 \div 5$

Multiply: 0×5

Subtract: $3 - 0$

So the quotient is 110 and the remainder is 3.   110 r 3

Explanation to #2

The first digit is greater than 3.Start with first digit. Divide the hundreds

$$\begin{array}{r} 3 \\ 3\overline{)904} \\ -9 \\ \hline 0 \end{array}$$

Divide: 9 ÷ 3

Multiply: 3 X 3
Subtract: 9 - 9

Bring down the tens. Divide the tens

$$\begin{array}{r} 30 \\ 3\overline{)9\ 0\ 4} \\ -9 \\ \hline 0\ 0 \\ -\ 0 \\ \hline 0 \end{array}$$

Divide: 0 ÷ 3

Multiply: 0 X 3
Subtract: 0 − 0

Bring down the ones. Divide the ones

$$\begin{array}{r} 30\mathbf{1} \\ 3\overline{)9\ 0\ 4} \\ 9 \\ \hline 00 \\ -0 \\ \hline 0\ \mathbf{4} \\ -\ \ 3 \\ \hline 1 \end{array}$$

Multiply: 0 X 3
Subtract: 4 − 3

So the quotient is 301 and remainder is 1. 301 r 1.

Explanation to #3

Divide the number of strawberry jellies by the number of bowls.

20 ÷ 5 = 4

There are 4 strawberry jellies in each bowl.