Name _____   Date _____

Decimal Division Problems - Guided Lesson Explanation

Explanation#1

Step 1) First we have to see what is being asked.

"Decimal Division- 2.09 ÷ 1.90"

Step 2) Remember, move the decimal point the same number of places to the right in the dividend and the divisor.

Step 3) Move the decimal point 1 place to the right in both the dividend and divisor.

$$1.90\overline{)2.09} \ \rightarrow \ 190\overline{)20900}$$

Step 4)
$$
\begin{array}{r}
11 \\
190\overline{)20900} \\
\underline{190} \\
190 \\
\underline{190} \\
0
\end{array}
$$

So, the answer is 1.1.

Explanation#2

Step 1) First we have to see what is being asked.

"Decimal Division- 3.35 ÷ 8.00"

Step 2) Remember, move the decimal point the same number of places to the right in the dividend and the divisor.

Step 3) Move the decimal point 1 place to the right in both the dividend and divisor.

$$8.00\overline{)3.35} \ \rightarrow \ 800\overline{)33500}$$

Step 4)   4187.5
         800)33500
              3200
              1500
               800
              7000
              6400
               6000
               5600
                4000
                4000
                   0

So, the answer is .41875.

Explanation#3

Step 1) First we have to see what is being asked.

"Decimal Division-8.30 ÷ 5.34"

Step 2) Remember, move the decimal point the same number of places to the right in the dividend and the divisor.

Step 3) Move the decimal point 1 place to the right in both the dividend and divisor.

$$5.34\overline{)8.30} \rightarrow 534\overline{)83000}$$

Step 4)   1554.30
         534)830000
              534
              2960
              2670
               2900
               2670
                2300
                2136
                1640
                1602
                  38

So, the answer is 1.55430.