

Practicing Long Division - Guided Lesson Explanation

Explanation #1

Step 1) Look what we have to do with this equation:

We have to divide the dividend by the divisor

Step 2) a) $12 \overline{) 769}$

The first digit is less than 12. Start with the first 2 digits. Divide the tens.

$$\begin{array}{r}
 \mathbf{6} \longrightarrow \text{Divide: } 76 \div 12 \\
 12 \overline{) 769} \\
 \underline{- 72} \longrightarrow \text{Multiply: } 6 \times 12 \\
 \mathbf{4} \longrightarrow \text{Subtract: } 76 - 72
 \end{array}$$

Bring down the ones. Divide the ones.

$$\begin{array}{r}
 \mathbf{64} \longrightarrow \text{Divide: } 49 \div 12 \\
 12 \overline{) 769} \\
 \underline{- 72} \downarrow \\
 \mathbf{49} \\
 \underline{- 48} \longrightarrow \text{Multiply: } 6 \times 12 \\
 \mathbf{1} \longrightarrow \text{Subtract: } 49 - 48
 \end{array}$$

The remainder is 1. So, the answer is $12 \overline{) 769} \begin{matrix} 64 \\ \text{R } 1 \end{matrix}$

Explanation #2

b) $114 \div 19$

Divide 114 by 19. You can use repeated subtraction. Subtract 19 until you reach zero.

$$114 - 19 = 95$$

$$95 - 19 = 76$$

$$76 - 19 = 57$$

$$57 - 19 = 38$$



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$$38 - 19 = 19$$

$$19 - 19 = 0$$

Count how many times you subtracted 19. You subtracted 19 six times.

So, the answer is $114 \div 19 = 6$.

Explanation #3

Step 1) Look at the numbers given:

6	11	48	9
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Step 2) Look for numbers in the box that have 8 as a factor.

48 has 8 as a factor. What number can you divide 48 by to get 8?

$$48 \div 6 = 8$$

6 is in the box.

The division sentence is $48 \div 6 = 8$.

