

HOW TO DO LONG DIVISION

Part 2

How to do long division

Another
Example!



JUST LIKE BEFORE.....

We're going to GUESS!

Let's try 3

$$\begin{array}{r} 3 \\ 17 \overline{) 476} \quad ? \\ \underline{- 51} \\ \text{OOPS!} \end{array}$$

You can't subtract 51 from 47. Guess again!

GUESS!

Let's try 2!

Now let's try 8

What is $17 \overline{)476}$?

$$\begin{array}{r} 28 \\ 17 \overline{)476} \\ \underline{-34} \\ 136 \end{array}$$

The diagram shows a long division problem. The divisor is 17 and the dividend is 476. The quotient is 28. A red arrow points down from the 4 in the quotient to the 34 in the subtraction step. The remainder is 136.

GUESS

Now let's try 8

Let's try 2!

What is 17 $\overline{)476}$?

$$\begin{array}{r} 28 \\ \overline{)476} \\ -34 \\ \hline 136 \end{array}$$

$$17 = 10 + 7$$

$$8 \times 10 = 80$$

$$\begin{array}{r} 8 \times 7 = +56 \\ \hline 136 \end{array}$$

GUESS

What is $17 \overline{)476}$?

$$\begin{array}{r}
 28 \\
 \hline
 17 \overline{)476} \\
 \underline{-34} \\
 136 \\
 \underline{-136} \\
 0
 \end{array}$$

$17 = 10 + 7$
 $8 \times 10 = 80$
 $8 \times 7 = +56$
 $\underline{56}$
 136

GUESS

$$476 \div 17 = 28$$