



Long Division with Partial Quotients #1



How to Divide with Partial Quotients

Step 1: Work with multiples of 100 and ask yourself: *How many times can 4 go into 536?* 4 can go into this dividend 100 times without going over.

Step 2: Subtract 400 from 536. How many times can 4 go into 136? Think multiples of 10! 4 multiplied by 30 is 120.

Step 3: Repeat until you can't subtract.

Step 4: Find the sum of the partial quotients.

$$\begin{array}{r}
 \text{divisor} \rightarrow 4 \overline{) 536} \leftarrow \text{dividend} \\
 - 400 \\
 \hline
 136 \\
 - 120 \\
 \hline
 16 \\
 - 16 \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 100 \\
 30 \\
 + 4 \\
 \hline
 134
 \end{array}$$

$$100 + 30 + 4 = 134$$

$$536 \div 4 = \boxed{134}$$

Directions: Find each quotient using the Partial Quotient Strategy and show all of your work. There are no remainders.

1.

$$\begin{array}{r}
 \boxed{} \\
 4 \overline{) 848}
 \end{array}$$

2.

$$\begin{array}{r}
 \boxed{} \\
 3 \overline{) 525}
 \end{array}$$

3.

$$\begin{array}{r}
 \boxed{} \\
 2 \overline{) 430}
 \end{array}$$

Let's Check Using the Inverse Operation!

Use multiplication to check your answer for problem number 1. Show all of your work.