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.

divisor — 4 | 5 3 6 — dividend

```
  4 | 5 3 6
    - 4 0 0 |  1 0 0
    -------
      1 3 6
    - 1 2 0 |    3 0
    -------
        1 6
    -   1 6 |  +  4
    -------
         0  |  1 3 4
```

$$100 + 30 + 4 = 134$$
$$536 \div 4 = \boxed{134}$$

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

1. [   ]

4 | 8 4 8

2. [   ]

3 | 5 2 5

3. [   ]

2 | 4 3 0

Let's Check Using the Inverse Operation!

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