

Name _____

Partial Quotients

Divide. Use partial quotients.

$$858 \div 57$$

Step 1 Estimate the number of groups of 57 that are in 858. You know $57 \times 10 = 570$. Since $570 < 858$, at least 10 groups of 57 are in 858. Write 10 in the quotient column, because 10 groups of the divisor, 57, are in the dividend, 858.

858	Quotient
<u>-570</u>	10
288	

Step 2 Now estimate the number of groups of 57 that are in 288. You know $57 \times 4 = 240$. So at least 4 groups of 57 are in 288. Subtract 228 from 288, because $57 \times 4 = 228$. Write 4 in the quotient column, because 4 groups of the divisor, 57, are in 288.

288	4
<u>-228</u>	
60	

Step 3 Identify the number of groups of 57 that are in 60. $57 \times 1 = 57$, so there is 1 group of 57 in 60. Write 1 in the quotient column.

60	+ 1
<u>-57</u>	15
3	

remainder \rightarrow

Step 4 Find the total number of groups of the divisor, 57, that are in the dividend, 858, by adding the numbers in the quotient column. Include the remainder in your answer.

Answer: 15 r3

Divide. Use partial quotients.

1. $17 \overline{)476}$

2. $14 \overline{)365}$

3. $25 \overline{)753}$

4. $462 \div 11$

5. $1,913 \div 47$

6. $1,085 \div 32$