

Divide Using Partial Quotients

You can use partial quotients to divide.

Divide. $492 \div 4$

Step 1 Subtract greater multiples of the divisor. Repeat if needed.

Step 2 Subtract lesser multiples of the divisor. Repeat until the remaining number is less than the divisor.

Step 3 Add the partial quotients.

Use rectangular models to record partial quotients.

		Partial quotients	
$\begin{array}{r} \overline{)492} \\ -400 \\ \hline 92 \\ -80 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$	100×4	100	
	20×4	20	
	3×4	$+ 3$	
		123	

	100			
4	$\begin{array}{ c c c } \hline 400 & 80 & 12 \\ \hline \end{array}$		$\begin{array}{r} 492 \\ -400 \\ \hline 92 \end{array}$	
	100	20		
4	$\begin{array}{ c c c } \hline 400 & 80 & 12 \\ \hline \end{array}$		$\begin{array}{r} 92 \\ -80 \\ \hline 12 \end{array}$	
	100	20	3	
4	$\begin{array}{ c c c } \hline 400 & 80 & 12 \\ \hline \end{array}$		$\begin{array}{r} 12 \\ -12 \\ \hline 0 \end{array}$	

$$\underline{100} + \underline{20} + \underline{3} = \underline{123}$$

Divide. Use partial quotients.

1 $3 \overline{)657}$

_____	$100 \times$ _____	100
_____	$100 \times$ _____	_____
_____	_____ $\times$ _____	_____
_____	_____ $\times$ _____	+

Divide. Use rectangular models to record the partial quotients.

2 $852 \div 6 = \underline{\hspace{2cm}}$