Dividing Decimals

Estimates the quotient of two decimals	Divides a decimal by a whole number using a strategy of their choice	Divides a decimal by a decimal using a strategy of their choice	Models and solves applied problems that involve the division of decimals
$121.74 \div 4.8$ "121.74 is close to 125 and 4.8 is close to 5. I can estimate the quotient as $125 \div 5$, which is 25."	$16.8 \div 3$ "I know how to divide whole numbers, so I'll calculate $168 \div 3$, which is 56. 16.8 is close to 15 and $15 \div 3$ is 5, so the decimal point belongs between the 5 and 6. $16.8 \div 3 = 5.6$."	"To calculate $86.32 \div 8.3$, I can multiply each number by 100 to create an equivalent ratio. The calculation becomes $8632 \div 830$. I'll use an algorithm. $$\begin{array}{r} 10.4 \\ 830 \overline{)8632.0} \\ \underline{830} \\ 3320 \\ \underline{3320} \\ 0 \end{array}$$ $86.32 \div 8.3 = 10.4$."	Livio works in a chocolate shop. They have 3.75 kg of chocolates to pack in 0.75 kg boxes. How many boxes can they fill? Will there be any chocolates left over? "I need to divide 3.75 by 0.75. I create an equivalent ratio by multiplying the numbers by 100. The calculation becomes $375 \div 75$. I can use repeated addition to solve this. I know $2 \times 75 = 150$ and $150 + 150 = 300$. That leaves 75 more. So, $375 \div 75 = 2 + 2 + 1$ $= 5$ Livio can fill 5 boxes. There will be no chocolates left over."

Observations/Documentation