

Unit 2		Topic 2: Use Models to Add and Subtract Decimals		
Objective #	Enter Each Objective Below	Basic Example	Intermediate Example	Advanced Example
2-1	Use rounding or compatible numbers to estimate sums and differences of whole numbers	$55+12+30$ $100+235+115$ <div>5,323 + 2,611</div>		
2-2	I can add and subtract whole numbers using different strategies.	$55+12+30$ $100+235+115$ <div>5,323 + 2,611</div>		
2-3	I can use rounding or compatible numbers to estimate sums and differences of decimal numbers.	To add $6.53 + 1.28$, adjust 1.28 to make it easier to add. 6.53 is closer to 7 and 1.28 is closer to 1. So, a good estimate would be $7+1=8$.	Rachel bought a book for \$5.49 and a game for \$10.98. She paid with a \$20 bill. Which is the best estimate of the amount of change she should receive? <div><div>A</div> \$4 <div>B</div> \$6 <div>C</div> \$14 <div>D</div> \$16</div>	A gardender is estimating the amount of mulch needed for two garden beds. There is no room to store extra mulch. Is it better to estimate a greater or lesser amount than the mulch needed? Why?
2-4	Model sums of decimals to the hundredths.	Use place-value blocks to model $\$0.85 + \0.40 . <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>\$0.85</div></div> <div>+</div> <div><div><div></div><div></div><div></div><div></div><div></div></div><div></div></div> <div>\$0.40</div> <div></div>	Each set of place-value blocks below represents a decimal. Each set of place-value blocks below represents a decimal. <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>What is the sum of the decimals?</div>	Critique Reasoning Juan adds $3.8 + 4.6$ and gets a sum of 84. Is his answer correct? Tell how you know.
2-5	Model differences of decimals to the hundredths.	Show 1.57 with place-value blocks. <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>10.57</div> To subtract 0.89, regroup the blocks and remove 8 tenths and 9 hundredths. The blocks remaining are the difference. <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>1.57 - 0.89 = 0.68</div>	Write an expression that is represented by the model below. <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>1.57 - 0.89</div>	Is the difference of $1.48 - .24$ less than or greater than one? Use a model to justify your answers.
2-6	Adding decimals to hundredths step by step	Write the numbers, lining up the digits by place value. Include the zeros as place holders in the ones place. <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>0.62</div> <div>+</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div> <div>0.56</div> <div></div>	Just like with whole numbers, line up the addends by place value. The decimal points will also line up. <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>2.139</div> <div>+</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div> <div>2.159</div> <div></div>	<div>2.94 + 45 + 58.06</div> <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div></div> <div>2.94</div> <div>+</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div> <div>45</div> <div>+</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div></div> <div>58.06</div> <div></div>

