Name:	Date:
Topic:	Class:

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Main Ideas/Questions	Notes/Examples			
ADDING &	1	SIMPLIFY all radicals.		
SUBTRACTING RADICALS	2	Identify radicals with the <b>SAME INDEX</b> and <b>SAME RADICAND</b> . Only these can be combined!		
	3	For common radicals, add/subtract the coefficients and KEEP THE COMMON RADICAL.		
	<b>EXAMPLE:</b> $-2\sqrt{20} - 2\sqrt{5}$			
More	Directions: Find each sum or difference. Make sure you simplify FIRST!			
Examples		$\sqrt{6}-2\sqrt{6}$	<b>2.</b> $2\sqrt{5} + 2\sqrt{5}$	
	3. 1	$0\sqrt{7} + 2\sqrt{63}$	<b>4.</b> $\sqrt{15} - 6\sqrt{60}$	
	<b>5.</b> 2 <sub>\sqrt</sub>	$\sqrt{32} - 3\sqrt{18}$	<b>6.</b> $-4\sqrt{28} + 4\sqrt{112}$	
	74	1√160 −2√90	<b>8.</b> 4√45 + 3√245	

	<b>9.</b> $-2\sqrt{10} - 3\sqrt{6} - 2\sqrt{10}$	<b>10.</b> $2\sqrt{7} + 5\sqrt{3} + 4\sqrt{7}$	
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	<b>11.</b> $-3\sqrt{50} + \sqrt{18} - 3\sqrt{3}$	<b>12.</b> $2\sqrt{8} + 4\sqrt{96} - \sqrt{24}$	
		17. 33.	
	<b>13.</b> $-5\sqrt{8} + 2\sqrt{45} + 3\sqrt{200}$	<b>14.</b> $10\sqrt{6} + 18\sqrt{150} - 4\sqrt{54}$	
A NO IS	3,012,15 +3,200	14. 1000 + 100130 - 4034	
	<b>15.</b> $-\sqrt{5} + 3\sqrt{7} - \sqrt{5} - 2\sqrt{5}$	<b>16.</b> $-3\sqrt{6} - 5\sqrt{6} + 4\sqrt{8} + 4\sqrt{2}$	
Applications	17. Write the perimeter of the triangle as an expression in simplest radical form.		
	$2\sqrt{72}$ $16\sqrt{2}$ 18. The length and width of a rectangle is represented by the expressions $2\sqrt{405} \text{ and } 9\sqrt{48}.$ Write an expression to represent the perimeter of the rectangle in simplest radical form.		