Name:		Date:	Date:	
Topic:	and a second s	Class:	St 61.1	

Main Ideas/Questions	Notes/Examples			
Dividina	1 Break apart the radicands using the the QUOTIENT RULE: $\sqrt{\frac{a}{b}} =$			
Radicals	2 Look for perfect square radicals and simplify them.			
Radioalo	3 Simplify (divide/reduce) the rad	Simplify (divide/reduce) the radicands, if possible.		
	(4) Simplify the resulting radical, alc	Simplify the resulting radical, along with any coefficients.		
Evenables	Directions: Find each quotient. Write your answer in simplest radical form.			
Examples	<b>1.</b> $\sqrt{\frac{49}{100}}$	<b>2.</b> $\sqrt{\frac{8}{32}}$		
No.				
	3. 3	4. 7		
	V16	\ 49		
		/12		
	<b>5.</b> $\frac{\sqrt{10}}{\sqrt{45}}$	<b>6.</b> $\frac{\sqrt{12}}{\sqrt{36}}$		
	The second second			
	<b>7.</b> $\frac{\sqrt{96}}{5}$	8. $\frac{7\sqrt{108}}{\sqrt{5}}$		
	$\sqrt{3}$	√6		
	25	4/15		
	<b>9.</b> $\frac{3\sqrt{5}}{\sqrt{45}}$	<b>10.</b> $\frac{4\sqrt{13}}{3\sqrt{27}}$		
KA	<b>11.</b> $\frac{10\sqrt{48}}{5}$	12. $\frac{3\sqrt{84}}{\sqrt{8}}$		
	2√3	15√7		
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Rationalizing the Denominator	To be <b>fully simplified</b> means there is <b>no radical left in the denominator</b> . Sometimes this can occur with dividing. The process of eliminating the radical is called <b>rationalizing the denominator</b> . To rationalize a denominator, both the numerator and denominator by the radical in the denominator, then simplify.		
Examples	Directions: Find each quotient. Write your answer in simplest radical form.		
	13. $\frac{4}{\sqrt{7}}$	<b>14.</b> $\frac{\sqrt{5}}{\sqrt{2}}$	
	<b>15.</b> $\sqrt{\frac{81}{2}}$	<b>16.</b> $\sqrt{\frac{6}{18}}$	
	<b>17.</b> $\frac{4\sqrt{3}}{\sqrt{2}}$	<b>18.</b> $\frac{\sqrt{4}}{10\sqrt{3}}$	
	<b>19.</b> $\frac{5\sqrt{12}}{\sqrt{10}}$	<b>20.</b> $\frac{2}{5\sqrt{6}}$	
	<b>21.</b> $\frac{4\sqrt{5}}{6\sqrt{2}}$	<b>22.</b> $\frac{2\sqrt{3}}{3\sqrt{6}}$	
	<b>23.</b> $\frac{\sqrt{3}}{2\sqrt{8}}$	<b>24.</b> $\frac{4\sqrt{5}}{\sqrt{12}}$	
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