	Notes on Simplif	ying Radicals		Name		
	$\sqrt{}$ means the "positive square root" of a number.					
	Consider $\sqrt{25}$. This means the "positive square root" of 25. To find it, ask yourself, "What positive number times itself equals 25?" 5					
	Evaluate. 1. √49	2. √100 10	3. √1 	4. √144 1 >	5. √0 ⊘	
	A <u>radical</u> is any <u>quantity</u> with a radical symbol, $\sqrt{}$.					
		ally, 4 is being $$ d by $\sqrt{10}$.	4 10	House		
				'10' is the radicand. The radicand is the number "in the house".		
	A <u>radical expres</u>	sion is any <mark>expressic</mark>	on that contains a rac	lical.		
•	***The goal of this entire unit is to learn how to simplify radicals. To simplify radicals mean to perform every operation possible and to make the radicand(s) as small as possible.***					
	Thus, the critical part is that one must choose factors that are perfect squares .					
		l a perfect square, as l, and leaves me wit		prime number goes divi ?"	des evenly	
	Here are a list of	Here are a list of prime numbers: 2, 3, 5, 7, 11, 13,				
total	Simplify $\sqrt{45}$. A	ask yourself, "Which — perfect	prime number abov	ve divides evenly into 45°)II	
imper	rfect		Tur			

72 7.

Simplify $\sqrt{42}$.

6

Simplify $\sqrt{72}$.

totalley Imperfect

Algebra 1 Name Name Simplifying Radicals Practice

Period Date

Simplify.

1)
$$\sqrt{80}$$
 | 80
 $16^{\circ}5$ | 2 40
 $4\sqrt{5}$ | 5 16
 810

4)
$$\sqrt{27}$$
 9 3 $\sqrt{3}$

5)
$$\sqrt{48}$$
16 3 $2\sqrt{12}$
16 3 $\sqrt{43}$
17 $\sqrt{43}$
18 $\sqrt{43}$





