Simplifying Radicals

Procedure:

- 1. Rewrite the radicand as a product of a perfect square and some other number.
- 2. Take the square root of the perfect square.
- 3. Leave the other number in the radical.

				Perfect Squares		
	Example:	Simplify N V	$\sqrt{80} = \sqrt{16 \times 5}$ $= 4\sqrt{5}.$		$1^{2} = 1$ $2^{2} = 4$ $3^{2} = 9$ $4^{2} = 16$ $5^{2} = 25$	$6^{2} = 36$ $7^{2} = 49$ $8^{2} = 64$ $9^{2} = 81$ $10^{2} = 100$
Simplify.						
1.	$\sqrt{81}$	2.	$\sqrt{40}$	3.	<u>√99</u>	
4.	$\sqrt{49}$	5.	√75	6.	$\sqrt{64}$	
7.	$\sqrt{180}$	8.	$\sqrt{100}$	9.	$\sqrt{81}$	
10.	$\sqrt{112}$	11.	$\sqrt{36}$	12.	$\sqrt{128}$	
13.	$\sqrt{700}$	14.	$\sqrt{243}$	15.	$\sqrt{294}$	

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