Notes:

0	[114] Trrational Square Ports
	- (Simplifying) Padicals)
	10-
	[11.4] Irrational Square Reats (Simplifying) Radicals) O 1500 = 1005 = 1015
	What is the
	biggest Perfect sødare factor?
	source factor.
	2 163 = 197 = 357
	3 5V8 = 5 (4)=Z = 10VZ
	Q V72 : V9.8 : V992 : 612
	0) = 1362 = 652 & Same
-	
	3 7 VIZ = 7 VA3 = 14 V3
	Q J2800 = 100 A7 = 2017
	⑦ √960 = √4.240 = √4.4.60 = √404015 = 815
	VG415 = 815
	10915 - 1815
4	ook for IF
	9 IF the last 2 digits are divisible by 4 25 IF the last 2 digits are 00 25 50 75
	If the sun of the spin the state
	(25) IF the last 2 digits are 00, 25, 50, 75
	100 the
	(1) 150 · 1252 512
)	9 V98 : V49.2 7V2
	10 V350 : V25.14 5 V14
	U VI28: V64.2 812
	1

## Homework:

NAME DATE					
Irra	tional Square H	Roots			
	o simplify radicals and to uare roots.	find decimal appr	oximations of irrationa	1	
Vocabulary					
Irrational r	numbers Real numbers	that can't be expre	ssed in the form $\frac{a}{b}$ ,		
where a	and b are integers. Their ting or repeating decimal	ir exact values can		er	
Property					
Property of every re	f Completeness Every d cal number can be repres	ecimal represents ented by a decima	a real number, and l.		
Example 1	Simplify: a. $\sqrt{256}$	$\overline{5}$ b. $\sqrt{50}$ c	. $2\sqrt{80}$ d. $\sqrt{704}$		
Solution	a. $\sqrt{256} = \sqrt{4 \cdot 64}$	Factor within the	he radical sign.		
			t property of square ro	pots.	
	= 2 · 8	Simplify.			
	= 16				
	<b>b.</b> $\sqrt{50} = \sqrt{25 \cdot 2}$				
	$= \sqrt{25} \cdot \sqrt{2}$				
	$= 5\sqrt{2}$				
	$c. 2\sqrt{80} = 2\sqrt{16 \cdot 5}$				
	$= 2 \cdot 4\sqrt{5}$				
	$= 8\sqrt{5}$				
	$\mathbf{d.}\sqrt{704} = \sqrt{64\cdot 11}$				
	$= 8\sqrt{11}$				
implify.				,	
<b>1.</b> √27	<b>2.</b> $\sqrt{20}$	<b>3.</b> √72	4. $\sqrt{32}$	5. $\sqrt{48}$	
<b>6.</b> √45	<b>7.</b> √196	<b>8.</b> √80	<b>9.</b> 2√63	<b>10.</b> 4√98	
1. $7\sqrt{28}$	<b>12.</b> 4\[10]	13. \(\sqrt{441}\)	14. $\sqrt{289}$	<b>15.</b> 3√50	
<b>5.</b> 12√50	<b>17.</b> √729	18. $\sqrt{432}$	<b>19.</b> 8√75	20. 2\/90	