		Name:		Period:
•	otes: Simplifying R			
<u>-REI.4b:</u> I can	solve quadratic equations b	y inspection, taking square	roots and using the quadrate	ic formula.
ocabulary:				
Square	Roots ($$): a number uare roots are NOT the	er that is e same thing as dividing	g by 2.****	
Radica	nd: the number		the square root.	
Radical	l: another word for			
rite down th	e answers of the <u>perfe</u>	ect squares below.		
	-	-		
$\overline{1}$ $\sqrt{4}$	$\sqrt{9}$ $\sqrt{16}$ $\sqrt{25}$	$\sqrt{36}$ $\sqrt{49}$ $\sqrt{64}$	$\sqrt{81}$ $\sqrt{100}$	$\sqrt{121}$ $\sqrt{144}$ $\sqrt{169}$
uare roots of	f negative numbers: _			
$\sqrt{-9} =$		$-\sqrt{9} =$		<u>+</u> √9 =
V-9-		-	-	<u>r</u> v9 –
se Kahoot to	answer the questions	below (https://tinyu	url.com/lvawka3):	
$\sqrt{4}$	-	$3. \pm \sqrt{100}$	- /	5. − √625
	_	_		
$\sqrt{-1}$	7. $\sqrt{0}$	8. <u>±</u> √81	9. $\sqrt{-121}$	10. $-\sqrt{121}$
'hat happens	if we take the square	root of a <u>non-perfect</u>	square?	
	$\sqrt{20} =$			
	v _ · · · ·			are not accurate, so them when simplifying
			radicals.	r , o
			Instead, use	squares

Simplify each radical expression. 1. $-\sqrt{18}$	2. $\sqrt{10}$	3. $\sqrt{45}$
4. 4√25	5. 2√32	6. −5√72
7. √2 4	8. √14	9. −3√44
10. 2√63	11. $4\sqrt{27}$	12. −4√300