GSE Algebra I Uni	t 1 – Relationships between G	Quantities 1.7 – Simplify Radicals		
Name: Date:				
$\Rightarrow$ NO fractions are	are factors other than 1 are u	under the radical.		
What is the prime factori		98		
Simplify: 3. √45	4. √20	5. √12		
6. √50	7. √200	8. √125		
9. —4√40	10. √99	11. √108		

## SIMPLIFYING VARIABLES AS RADICANDS \*\* Even Exponents – Take half of the exponent OUTSIDE the radical and leave NOTHING under the radical sign \* Odd Exponents – Leave ONE exponent UNDER the radical and take HALF of the rest OUTSIDE the radical sign 12. $\sqrt{x^6}$ 13. $\sqrt{49x^5}$ 14. $\sqrt{36y^4}$ 15. $\sqrt{16x^2}$ 16. $\sqrt{a^3b^5}$ 17. $\sqrt{18x^7y^4}$

18. $\sqrt{90x^5y}$	19. $\sqrt{24x^2y^9}$	20. $-2\sqrt{15x^2y^8}$

21. $\sqrt{196x^7y^8}$	22. $\sqrt{450c^5}$	23. $3\sqrt{48y^{12}}$