Name_____Date_____

Simplifying Radical Expressions "Name That State" Activity

Directions: Simplify each radical expression below. Then, find the correct answer on the US map and find which state the fun fact refers to. You may need to refer to an atlas or other resource if you are unsure of the state. Show any work on a separate sheet of paper.

Radical Expression	Simplified Expression	Fun Fact	State
1. $\sqrt{49x^2}$		In 1937, this state became the first to issue permanent license plates for cars.	
2. $\sqrt{175x^5y}$		This state is the birthplace of Davy Crockett.	
3. $\sqrt{18x^5y^7}$		This state's official animal is the grizzly bear.	
4. $\sqrt{25x^2}$		This is the only state that grows coffee.	
5. $\sqrt{175}$		This state has the tallest state capitol building in the U.S.	
6. $\sqrt{176x}$		Neil Armstrong, the first man to walk on the moon, was from this state.	
7. $\sqrt{243x^5y}$		At one time, it was against the law to serve ice cream on cherry pie in this state.	
8. $\sqrt{243x^7}$		In 1903, the Wright Brothers made their first successful powered flight in this state.	
9. $\sqrt{448}$		The first motion picture theatre opened in this state in 1902.	
10. $\sqrt{32x}$		This state has the highest literacy rate in the nation.	
11. $\sqrt{180x^5y}$		This was the last of the original 13 colonies to become a state.	
12. $\sqrt{252x}$		This state houses the oldest European settlement in North America (Saint Augustine).	
13. $\sqrt{891}$		This became our 49th state in January 1959.	
14. $\sqrt{44x^5y^3}$		This is the only state to have the flags of 6 different nations fly over it.	
15. $\sqrt{81x^2}$		Joseph C. Gayetty, from this state, invented toilet paper in 1857.	

$6x^2\sqrt{5xy}$

$7x$

$9x$

$9x^3\sqrt{3x}$

$6\sqrt{7x}$

$4\sqrt{11x}$

$5x^2\sqrt{7xy}$

$5\sqrt{7}$

$9x^2\sqrt{3xy}$

$2x^2y\sqrt{11xy}$

$5x$

$3x^2y^3\sqrt{2xy}$

$4\sqrt{2x}$

$8\sqrt{7}$

$9\sqrt{11}$