Algebra 1
Simplifying Radicals Tic-Tac-Toe

Name: _____

Date: _____ Block: _____

Choose any box to start with. Work 5 problems in a ROW or COLUMN or DIAGONAL and circle your final answer. Then, have a teacher check it. If you get the problem correct, you will get an "O" and if you get the problem incorrect, I get an "X." If you get an "X," you must attempt additional problems until you get 5 in a ROW or COLUMN. If you run out of options to get tic-tac-toe then you have to work ALL the problems. Be sure to double check your answer BEFORE you bring it up to be checked!

Directions: Simplify each radical expression or product of radicals

1. $\sqrt{15n^2} \cdot \sqrt{10n^3}$	**2.** $\sqrt{45}$	**3.** $\sqrt{64x^4}$	**4.** $-8\sqrt{24k^3}$	**5.** $3\sqrt{12} \cdot \sqrt{6}$
6. $\sqrt{5} \cdot -4\sqrt{20}$	**7.** $\sqrt{18a^2} \cdot 4\sqrt{3a^3}$	**8.** $\sqrt{125}$	**9.** $\sqrt{147y^2z^3}$	**10.** $5\sqrt{48a^2}$
11. $2\sqrt{8p^2q^4}$	**12.** $-4\sqrt{15} \cdot \sqrt{3}$	**13.** $\sqrt{2y^3} \cdot \sqrt{8y^3}$	**14.** $\sqrt{80}$	**15.** $\sqrt{28a^2b^5}$
16. $\sqrt{36x^6y}$	**17.** $-6\sqrt{175x^4}$	**18.** $-3\sqrt{7} \cdot 6\sqrt{12}$	**19.** $-2\sqrt{9a^5} \cdot \sqrt{8a^2}$	**20.** $\sqrt{18}$
21. $\sqrt{96}$	**22.** $\sqrt{75k^5m^4}$	**23.** $3\sqrt{16x^4y^4}$	**24.** $5\sqrt{15} \cdot -2\sqrt{5}$	**25.** $3\sqrt{4m^2} \cdot -2\sqrt{10m^8}$

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