

Name: _____

Date: _____

Pull out perfect-square factors: $\sqrt{ab} = \sqrt{a} \cdot \sqrt{b}$. Combine only LIKE radicals. Last two are challenge problems!

1. $\sqrt{36} = ?$

show your work

2. $\sqrt{81} = ?$

show your work

3. Simplify $\sqrt{12}$.

show your work

4. Simplify $\sqrt{50}$.

show your work

5. Simplify $\sqrt{72}$.

show your work

6. $2\sqrt{3} + 5\sqrt{3} = ?$

show your work

7. $\sqrt{8} + \sqrt{2} = ?$

show your work

8. $\sqrt{5} * \sqrt{20} = ?$

show your work

9. Simplify $\sqrt{18} + \sqrt{50}$. **★ CHALLENGE**

show your work

10. Simplify $3\sqrt{8} - \sqrt{2} + \sqrt{32}$. **★ CHALLENGE**

show your work