

Name: _____

Date: _____

Basic Skills
Simplifying Numerical Radicals

Use the square root properties to simplify the radicals. Show all work. Write answer in radical form.

1. $\sqrt{98}$

2. $\sqrt{52}$

3. $\sqrt{300}$

4. $\sqrt{\frac{11}{4}}$

5. $\frac{\sqrt{200}}{60}$

6. $\sqrt{\frac{5}{9}}$

7. $\frac{\sqrt{75}}{20}$

8. $\sqrt{\frac{20}{49}}$

9. $10 \cdot \sqrt{\frac{11}{36}}$

10. $\frac{\sqrt{56}}{\sqrt{36}}$

11. $2\sqrt{42} \cdot \sqrt{9}$

12. $\frac{1}{3}\sqrt{18} \cdot \sqrt{3}$

13. $\frac{\sqrt{6} \cdot \sqrt{36}}{\sqrt{2}}$

14. $\frac{-4\sqrt{45}}{\sqrt{144}}$

15. $8\sqrt{27} \cdot \sqrt{72}$