Simplifying Radicals (Square Roots)

Procedure: 1. **Rewrite the radicand as a product of a perfect square and some other number.**
2. **Take the square root of the perfect square.**
3. **Leave the other number in the radical.**

Example:
 Simplify $\sqrt{32}$.
$$\sqrt{32} = \sqrt{16 \times 2},$$
$$= 4\sqrt{2}.$$

Simplify the following.

1. $\sqrt{9}$

2. $\sqrt{36}$

3. $\sqrt{100}$

4. $\sqrt{20}$

5. $\sqrt{25}$

6. $\sqrt{4}$

7. $\sqrt{64}$

8. $\sqrt{1}$

9. $\sqrt{81}$

10. $\sqrt{49}$

11. $\sqrt{144}$

12. $\sqrt{72}$

13. $\sqrt{75}$

14. $\sqrt{54}$

15. $\sqrt{98}$

16. $\sqrt{500}$

17. $\sqrt{121}$

18. $\sqrt{169}$