

Name:

Date:

Period:

1. Simplify: $\sqrt{50}$

2. Simplify: $-\sqrt{108}$

3. Simplify: $\sqrt{\frac{12}{81}}$

4. Simplify: $\frac{4}{5}\sqrt{125}$

5. $\sqrt{50} + \sqrt{32}$

6. $\sqrt{27} + \sqrt{12}$

7. $\sqrt{18} + \sqrt{72}$

8. $\sqrt{2} + \sqrt{2}$

9. $\sqrt{50} + \sqrt{72} - \sqrt{98}$

10. $6\sqrt{2} + \sqrt{50}$

11. $4\sqrt{2} - \sqrt{32}$

12. $3\sqrt{27} - \sqrt{12} + \sqrt{48}$

13. When $\sqrt{12}$ is subtracted from $5\sqrt{3}$ the result is:

14. $5\sqrt{8} - 3\sqrt{2}$

15. When $\sqrt{18}$ is subtracted from $6\sqrt{2}$ the result is:

16. $(3\sqrt{2})(2\sqrt{6})$

17. $(9\sqrt{5})(11\sqrt{5})$

18. $3\sqrt{2}(4\sqrt{3} + 6\sqrt{2})$

19. $(9\sqrt{2})(4\sqrt{6})$

20. $(5\sqrt{2} + 3\sqrt{5})(2\sqrt{10} - 5)$

21. $\sqrt{\frac{32}{t^4}}$

22. $\frac{\sqrt{h^3}}{\sqrt{8}}$

23. $\sqrt{\frac{35}{15}}$

24. $\sqrt{\frac{9ab}{4a^2b^4}}$

25. Simplify: $\frac{24\sqrt{50}}{12\sqrt{2}}$

26. Simplify: $\frac{5\sqrt{90}}{25\sqrt{40}}$

27. Simplify: $\frac{7\sqrt{24}}{21\sqrt{2}}$

28. Simplify: $\frac{3\sqrt{150}}{6\sqrt{2}}$