

Name:

Date:

Period:

Simplify.

1. $3\sqrt{12} \cdot \sqrt{6}$

2. $\sqrt{5} \cdot \sqrt{10}$

3. $\sqrt{6} \cdot \sqrt{6}$

4. $\sqrt{5} \cdot -4\sqrt{20}$

5. $-4\sqrt{15} \cdot -\sqrt{3}$

6. $\sqrt{20x^2} \cdot \sqrt{20x}$

7. $\sqrt{15n^2} \cdot \sqrt{10n^3}$

8. $\sqrt{18a^2} \cdot 4\sqrt{3a^2}$

9. $-3\sqrt{7r^3} \cdot 6\sqrt{7r^2}$

10. $-4\sqrt{28x} \cdot \sqrt{7x^3}$

11. $\sqrt{3}(5 + \sqrt{3})$

12. $2\sqrt{5}(\sqrt{6} + 2)$

13. $-3\sqrt{3}(2 + \sqrt{6})$

14. $\sqrt{3}(-5\sqrt{10} + \sqrt{6})$

15. $\frac{\sqrt{15}}{5\sqrt{20}}$

16. $\frac{\sqrt{8}}{\sqrt{100}}$

17. $\frac{\sqrt{6}}{\sqrt{27}}$

18. $\frac{3\sqrt{20}}{2\sqrt{4}}$

19. $\frac{4}{\sqrt{5}}$

20. $\frac{\sqrt{4}}{5\sqrt{3}}$

21. $\frac{\sqrt{5}}{\sqrt{3}}$

22. $\frac{\sqrt{2}}{2\sqrt{3}}$

23. $\frac{\sqrt{3x^2y^3}}{4\sqrt{5xy^3}}$

24. $\frac{\sqrt{15xy}}{3\sqrt{10xy^3}}$