

RADICAL Review #2

Name _____

Simplify:

1. $\sqrt{8} =$

2. $\sqrt{27} =$

3. $2\sqrt{50} =$

4. $3\sqrt{49} =$

5. $2\sqrt{3} + 4\sqrt{3} - \sqrt{3}$

6. $\sqrt{48} + \sqrt{12} + \sqrt{27}$

7. $\sqrt{80} + \sqrt{45} - \sqrt{20}$

8. $6\sqrt{54} - 3\sqrt{24} - 2\sqrt{6}$

9. $3\sqrt{99} - 2\sqrt{44} - 6\sqrt{11}$

10. $2\sqrt{162} - \sqrt{72} + 6\sqrt{128}$

Multiply and Simplify

11. $\sqrt{3} \cdot \sqrt{15}$

12. $\sqrt{7} \cdot \sqrt{7}$

13. $\sqrt{8} \cdot \sqrt{3}$

14. $\sqrt{12} \cdot \sqrt{6}$

15. $\sqrt{2} \cdot \sqrt{8}$

16. $3\sqrt{5} \cdot 4\sqrt{3}$

17. $2\sqrt{5} \cdot 3\sqrt{10}$

18. $2\sqrt{2} \cdot 3\sqrt{2}$

Division: Rationalize the denominator

20. $\frac{\sqrt{6}}{\sqrt{2}}$

21. $\frac{\sqrt{5}}{\sqrt{2}}$

22. $\frac{4}{\sqrt{6}}$