

## Multiplying and Dividing Square Roots

$$1. \sqrt{5} \cdot \sqrt{60} = \sqrt{300} = 10\sqrt{3}$$

$$2. \sqrt{2} \cdot \sqrt{8} = \sqrt{16} = 4$$

$$3. 3\sqrt{5} \cdot \sqrt{5} = 3\sqrt{25} = 15$$

$$4. \sqrt{6} \cdot \sqrt{12} = \sqrt{72} = 6\sqrt{2}$$

$$5. \sqrt{3} \cdot \sqrt{15} = \sqrt{45} = 3\sqrt{5}$$

$$6. \sqrt{3} \cdot 5\sqrt{3} = 5 \cdot 3 = 15$$

$$7. 2\sqrt{3} \cdot \sqrt{6} = 2\sqrt{18} = 6\sqrt{2}$$

$$8. \sqrt{3} \cdot \sqrt{27} = 3 \cdot 3 = 9$$

$$9. \sqrt{12} \cdot \sqrt{3} = \sqrt{36} = 6$$

$$10. \sqrt{25} \cdot \sqrt{2} = \sqrt{50} = 5\sqrt{2}$$

$$11. 2\sqrt{3} \cdot \sqrt{30} = 2\sqrt{90} = 6\sqrt{10}$$

$$12. \sqrt{4} \cdot \sqrt{3} = \sqrt{12} = 2\sqrt{3}$$

$$13. \sqrt{3} \cdot \sqrt{12} \cdot \sqrt{50} = 6 \cdot 5\sqrt{2} = 30\sqrt{2}$$

$$14. -5\sqrt{5} \cdot 4\sqrt{6} = -20\sqrt{30}$$

$$15. \frac{\sqrt{18}}{3\sqrt{2}} \cdot \frac{\sqrt{8}}{2\sqrt{2}} = 6\sqrt{12} = 12$$

$$16. \frac{\sqrt{3}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{2}$$

$$17. \sqrt{\frac{10}{2}} = \sqrt{5}$$

$$18. \sqrt{\frac{5 \cdot \sqrt{3}}{3}} = \frac{\sqrt{15}}{3}$$

$$19. 3\sqrt{\frac{6}{3}} = 3\sqrt{2}$$

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

$$21. 2\sqrt{\frac{5}{6}} = \frac{\sqrt{6}}{\sqrt{6}} = \frac{2\sqrt{30}}{6} = \frac{\sqrt{30}}{3}$$

$$22. \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$23. \sqrt{\frac{8}{2}} = \frac{\sqrt{16}}{\sqrt{4}} = \frac{4}{2} = 2$$

$$24. \sqrt{\frac{30}{5}} = \sqrt{6}$$

$$25. \sqrt{\frac{30}{10}} = \sqrt{3}$$

$$26. \sqrt{\frac{20}{3}} = \frac{\sqrt{60}}{\sqrt{3}} = \frac{\sqrt{60}}{3} = \frac{2\sqrt{15}}{3}$$

$$27. \sqrt{\frac{7}{11}} = \frac{\sqrt{77}}{\sqrt{77}} = \frac{\sqrt{77}}{11}$$

$$28. \sqrt{\frac{18}{3}} = \sqrt{6}$$

$$29. \sqrt{\frac{22}{4}} = \frac{\sqrt{22}}{2}$$

$$30. \sqrt{\frac{7}{6}} = \frac{\sqrt{42}}{\sqrt{42}} = \frac{\sqrt{42}}{6}$$