

## Multiplying and Dividing Roots

Simplify each product of square roots. Show ALL work.

1.  $\sqrt{22} \cdot \sqrt{8}$

2.  $\sqrt{15} \cdot \sqrt{6}$

3.  $\sqrt{40} \cdot \sqrt{35}$

4.  $\sqrt{18} \cdot \sqrt{8}$

5.  $\sqrt{4} \cdot \sqrt{6}$

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

7.  $\sqrt{25} \cdot \sqrt{8}$

8.  $\sqrt{42} \cdot \sqrt{20}$

Simplify each quotient of square roots. Show All work.

$$9. \sqrt{\frac{17}{144}}$$

$$10. \frac{\sqrt{200}}{\sqrt{10}}$$

$$11. \frac{\sqrt{96}}{\sqrt{12}}$$

$$12. \sqrt{\frac{16}{225}}$$

$$13. \frac{\sqrt{65}}{\sqrt{13}}$$

$$14. \frac{\sqrt{54}}{\sqrt{6}}$$

$$15. \frac{\sqrt{180}}{\sqrt{9}}$$

$$16. \sqrt{\frac{25}{64}}$$

$$17. \frac{\sqrt{120}}{\sqrt{10}}$$

$$18. \sqrt{\frac{144}{9}}$$

