

**Simplifying Radical Expressions**

Simplify each expression.

1.  $\sqrt{28}$

2.  $\sqrt{40}$

3.  $\sqrt{72}$

4.  $\sqrt{99}$

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

6.  $\sqrt{5} \cdot \sqrt{60}$

7.  $3\sqrt{5} \cdot \sqrt{5}$

8.  $\sqrt{6} \cdot 4\sqrt{24}$

9.  $2\sqrt{3} \cdot 3\sqrt{15}$

10.  $\sqrt{16b^4}$

11.  $\sqrt{81a^2d^4}$

12.  $\sqrt{40x^4y^6}$

13.  $\sqrt{75m^5p^2}$

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

15.  $\sqrt{\frac{1}{6}}$

16.  $\sqrt{\frac{6}{7}} \cdot \sqrt{\frac{1}{3}}$

17.  $\sqrt{\frac{q}{12}}$

18.  $\sqrt{\frac{4h}{5}}$

19.  $\sqrt{\frac{12}{b^2}}$

20.  $\sqrt{\frac{45}{4m^4}}$