

## Simplifying Square Roots

**Simplify.**

1)  $\sqrt{96}$   
 $4\sqrt{6}$

2)  $\sqrt{216}$   
 $6\sqrt{6}$

3)  $\sqrt{98}$   
 $7\sqrt{2}$

4)  $\sqrt{18}$   
 $3\sqrt{2}$

5)  $\sqrt{72}$   
 $6\sqrt{2}$

6)  $\sqrt{144}$   
 $12$

7)  $\sqrt{45}$   
 $3\sqrt{5}$

8)  $\sqrt{175}$   
 $5\sqrt{7}$

9)  $\sqrt{343}$   
 $7\sqrt{7}$

10)  $\sqrt{12}$   
 $2\sqrt{3}$

11)  $10\sqrt{96}$   
 $40\sqrt{6}$

12)  $9\sqrt{245}$   
 $63\sqrt{5}$

$$13) 7\sqrt{600}$$
$$70\sqrt{6}$$

$$14) 5\sqrt{45}$$
$$15\sqrt{5}$$

$$15) 5\sqrt{180}$$
$$30\sqrt{5}$$

$$16) 3\sqrt{405}$$
$$27\sqrt{5}$$

$$17) 2\sqrt{36}$$
$$12$$

$$18) 9\sqrt{125}$$
$$45\sqrt{5}$$

$$19) 8\sqrt{27}$$
$$24\sqrt{3}$$

$$20) 12\sqrt{1764}$$
$$504$$

$$21) 3\sqrt{900}$$
$$90$$

$$22) 7\sqrt{2535}$$
$$91\sqrt{15}$$

$$23) 11\sqrt{1215}$$
$$99\sqrt{15}$$

$$24) 2\sqrt{200}$$
$$20\sqrt{2}$$