Student Name: _____ Score:

# Simplify and Find the Square Root

Sheet 1

| | |
|---|---|
| 1) $\sqrt{\frac{27}{48}} =$ | 2) $\sqrt{\frac{5}{320}} =$ |
| 3) $\sqrt{\frac{32}{72}} =$ | 4) $\sqrt{\frac{200}{128}} =$ |
| 5) $\sqrt{\frac{48}{300}} =$ | 6) $\sqrt{\frac{324}{441}} =$ |
| 7) $\sqrt{\frac{384}{54}} =$ | 8) $\sqrt{\frac{64}{324}} =$ |
| 9) $\sqrt{\frac{196}{400}} =$ | 10) $\sqrt{\frac{96}{726}} =$ |
| 11) $\sqrt{\frac{175}{343}} =$ | 12) $\sqrt{\frac{81}{576}} =$ |

Name _____ Date _____Period_____

**Rationalizing Denominators Worksheet**

**Rationalize each denominator. When possible, simplify by reducing the resulting fraction.**

Ex.. $\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{4}} = \frac{\sqrt{2}}{2}$

2. $\frac{2}{\sqrt{3}}$

3. $\frac{1}{\sqrt{7}}$

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

5. $\frac{15}{\sqrt{5}}$

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

7. $\frac{1}{\sqrt{81}}$

8. $\frac{2}{\sqrt{11}}$

9. $\frac{4}{\sqrt{2}}$

10. $\frac{1}{\sqrt{3}}$

11. $\frac{1}{\sqrt{225}}$

12. $\frac{1}{3\sqrt{16}}$