

## Simplifying Radicals Worksheet 1

**Simplify.**

1)  $\sqrt{75}$

2)  $\sqrt{16}$

3)  $\sqrt{36}$

4)  $\sqrt{64}$

5)  $\sqrt{80}$

6)  $\sqrt{30}$

7)  $\sqrt{8}$

8)  $\sqrt{18}$

9)  $\sqrt{32}$

10)  $\sqrt{12}$

11)  $\sqrt{8}$

12)  $\sqrt{108}$

13)  $\sqrt{125}$

14)  $\sqrt{50}$

15)  $\sqrt{175}$

16)  $\sqrt{28}$

17)  $\sqrt{45}$

18)  $\sqrt{72}$

19)  $\sqrt{20}$

20)  $\sqrt{150}$

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