

Name:

UNIT 9 - RADICALS
SIMPLIFY RADICALS STUDY GUIDE

$$\sqrt{60}$$

6 10
2 3 2 5
 $2\sqrt{15}$

$$-3\sqrt{80}$$

8 10
2 4 2 5
2 2
 $-12\sqrt{5}$

$$\sqrt{600}$$

6 100
2 3 10 10
2 5 2 5
 $10\sqrt{6}$

$$2\sqrt{6} \cdot 3\sqrt{4}$$

6 24
6 4
2 3 2 2
 $12\sqrt{6}$

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

2 50
5 10
2 5
 $10\sqrt{2}$

$$\sqrt{8} \cdot \sqrt{2}$$

16
4

$$\frac{\sqrt{5} \cdot \sqrt{3}}{\sqrt{3}} = \frac{\sqrt{15}}{3}$$

$$\frac{\sqrt{6}}{\sqrt{5}} \cdot \frac{\sqrt{6}}{\sqrt{8}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{\sqrt{30}}{5}$$

$$\frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$$

$$\sqrt{6} + 3\sqrt{24}$$

6 4
2 3 2 2
 $\sqrt{6} + 6\sqrt{6}$
 $7\sqrt{6}$

$$2\sqrt{5} + 3\sqrt{20} - \sqrt{45}$$

5 4 9 5
2 2 3 3
 $2\sqrt{5} + 6\sqrt{5} - 3\sqrt{5}$
 $5\sqrt{5}$

$$\sqrt{2} + 3\sqrt{8}$$

2 4
2 2
 $\sqrt{2} + 6\sqrt{2}$
 $7\sqrt{2}$