## **Dividing Radical Notes**

N	a	n	1	e
N	a	n	1	e



Multiply the "fraction" by this <u>Radical</u> over this same <u>Radical</u>

Simplifu

**Examples:** 

1. 
$$\frac{5}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \boxed{\frac{5\sqrt{3}}{3}}$$

3. 
$$\frac{\sqrt{5}}{\sqrt{7}} \cdot \sqrt{\frac{17}{7}} = \sqrt{\frac{35}{7}}$$

$$2.\sqrt{\frac{12}{16}} = \frac{\sqrt{12}}{\sqrt{16}} = \frac{\sqrt{12}}{4} = \frac{213}{4}$$

$$4.\frac{\sqrt{3}}{2\sqrt{5}} \bullet \frac{\sqrt{5}}{\sqrt{5}} = \boxed{\frac{\sqrt{15}}{10}}$$

$$5. \ \frac{2\sqrt{30}}{4\sqrt{6}} = \frac{2.15}{4}$$

6. 
$$\sqrt{\frac{9}{2}} * \sqrt{\frac{4}{5}} = \sqrt{\frac{36}{10}} = \sqrt{\frac{36}{10}} = \sqrt{\frac{10}{10}}$$

7. A rectangle has an area of 120 units<sup>2</sup>. If one side is  $5\sqrt{2}$  units, what is the measure of

remaining side length?

$$\frac{1.W=A}{512} = \frac{120}{512} = \frac{12012}{10} = \frac{1212}{10}$$

$$X = \frac{216}{515} \cdot \frac{5}{15} = 2\sqrt{30} = x$$