Honors Geometry
Summer Prep

# Dividing Radicals!

Rules for Radicals

1. Radicals must be simplified. (No perfect squares left under the radical $\sqrt{\ }$ )
2. No fractions under the radical $\sqrt{\ }$
3. No $\sqrt{\ }$ in the denominator of the fraction. Rationalize the denominator!!!!

**Video Code: https://www.youtube.com/watch?v=xDcw-KkZOuk&feature=youtu.be**

**How do we get rid of the radical in the denominator?**

## Now let's divide those radicals!

Simplify.

1. $\frac{\sqrt{5}}{\sqrt{3}}$

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

3. $\sqrt{\frac{21}{7}}$

4. $\sqrt{\frac{18}{5}}$

5. $\frac{6\sqrt{10}}{\sqrt{3}}$

6. $\frac{11}{\sqrt{22}}$

7. $\frac{\sqrt{35}}{\sqrt{2}}$

8. $\frac{12\sqrt{51}}{\sqrt{7}}$

9. $\frac{16\sqrt{21}}{\sqrt{6}}$

10. $\frac{35\sqrt{7}}{\sqrt{5}}$

11. $\frac{3\sqrt{5}}{\sqrt{5}}$

12. $\frac{4\sqrt{6}}{\sqrt{3}}$