Honors Geometry Summer Prep Worksheet 3



Simplify.

1. 
$$\frac{\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{2}$$

2. 
$$\frac{5\sqrt{12}}{\sqrt{7}} \cdot \frac{7}{17} = \frac{5\sqrt{84}}{7} \cdot \frac{21\sqrt{3}}{7} \cdot \frac{3}{17} = \frac{5\sqrt{21}}{7} = \frac{10\sqrt{21}}{7} \cdot \frac{3}{17} = \frac{10\sqrt{21}}{7} = \frac{10\sqrt{2$$

6. 
$$\frac{72 \cdot 10}{36 \cdot 10}$$

$$\frac{\sqrt{121}}{\sqrt{22}} = 11$$

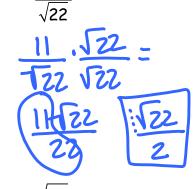
3.

4. 
$$\frac{45}{\sqrt{2}}$$
  $\frac{12}{\sqrt{2}}$   $\frac{15\sqrt{2}}{2}$ 

5. 
$$\frac{\sqrt{75}}{\sqrt{13}} \cdot \frac{\sqrt{13}}{\sqrt{13}}$$

$$\frac{\sqrt{915}}{\sqrt{39}} < \frac{25}{39} < \frac{3}{39}$$

$$\frac{5 - \sqrt{39}}{\sqrt{39}}$$



7. 
$$\frac{\sqrt{81}}{\sqrt{3}} = \sqrt{27}$$

8. 
$$\frac{\sqrt{55}\sqrt{2}}{\sqrt{2}\sqrt{2}}$$

9. 
$$\frac{\sqrt{20}}{\sqrt{6}}$$

10.  $\sqrt{3}$ 

13.  $\sqrt{3}$ 

12.  $\frac{18\sqrt{5}}{\sqrt{6}}$ 

10. 
$$\frac{39\sqrt{3}}{\sqrt{13}} \cdot \sqrt{13}$$

$$\frac{39\sqrt{3}}{\sqrt{13}} \cdot \sqrt{13}$$

11. 
$$\frac{7\sqrt{2}}{\sqrt{11}} \cdot \sqrt{11}$$