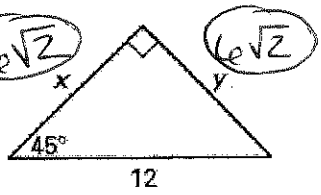
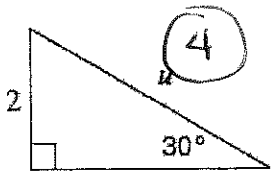
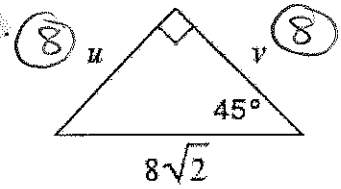
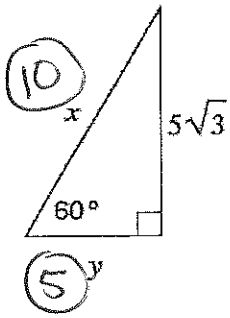
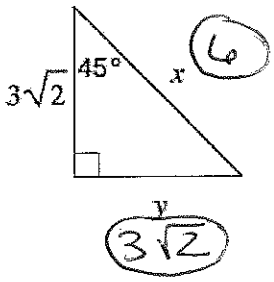
Special Right Triangles – Mixed Practice Name: Key

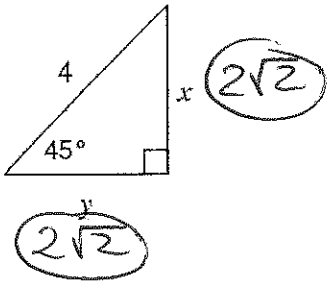
1. 

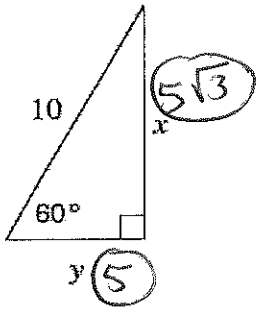
2. 

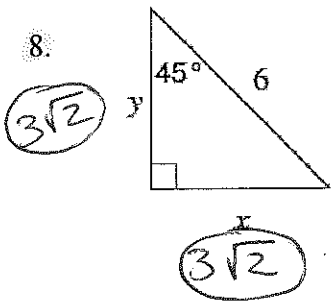
3. 

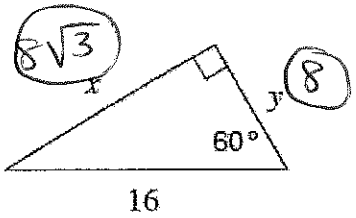
4. 

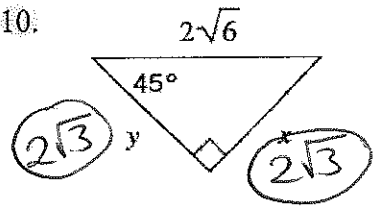
5. 

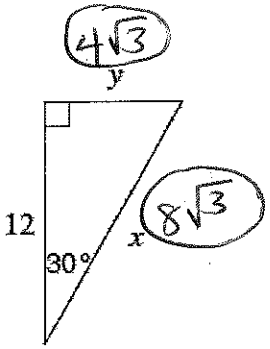
6. 

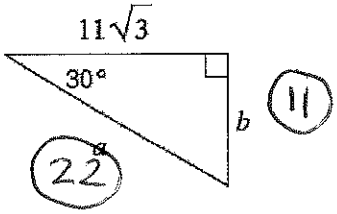
7. 

8. 

9. 

10. 

11. 

12. 

Simplifying and Rationalizing Radicals Review **Name:** Key

1. $\sqrt{54}$

$\sqrt{2}\,\sqrt{27}$

$\sqrt{3}\,\sqrt{9}$

$\sqrt{3}\,\sqrt{3}$

$3\sqrt{6}$

2. $\sqrt{84}$

$\sqrt{2}\,\sqrt{42}$

$\sqrt{2}\,\sqrt{21}$

$\sqrt{3}\,\sqrt{7}$

$2\sqrt{21}$

3. $\sqrt{27}$

$\sqrt{3}\,\sqrt{9}$

$\sqrt{3}\,\sqrt{3}$

$3\sqrt{3}$

4. $\sqrt{108}$

$\sqrt{2}\,\sqrt{54}$

$\sqrt{2}\,\sqrt{27}$

$\sqrt{3}\,\sqrt{9}$

$\sqrt{3}\,\sqrt{3}$

$2 \cdot 3\sqrt{3}$

$6\sqrt{3}$

5. $\sqrt{81}$

9

6. $\sqrt{32}$

$\sqrt{2}\,\sqrt{16}$

$\sqrt{2}\,\sqrt{8}$

$\sqrt{2}\,\sqrt{4}$

$\sqrt{2}\,\sqrt{2}$

$2 \cdot 2\sqrt{2}$

$4\sqrt{2}$

7. $\sqrt{96}$

$\sqrt{2}\,\sqrt{48}$

$\sqrt{2}\,\sqrt{24}$

$\sqrt{2}\,\sqrt{12}$

$\sqrt{2}\,\sqrt{6}$

$\sqrt{2}\,\sqrt{3}$

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

$4\sqrt{6}$

8. $\sqrt{8}$

$\sqrt{2}\,\sqrt{4}$

$\sqrt{2}\,\sqrt{2}$

$2\sqrt{2}$

9. $\frac{5}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$

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

10. $\frac{8}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}}$

$\frac{8\sqrt{5}}{5}$

11. $\frac{3}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\frac{3\sqrt{2}}{2}$

12. $\frac{3}{4\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

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

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

13. $\frac{5}{2\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$

$\frac{5\sqrt{3}}{2 \cdot 3}$

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

14. $\frac{2\sqrt{3}}{3\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}}$

$\frac{2\sqrt{15}}{3 \cdot 5}$

$\frac{2\sqrt{15}}{15}$

15. $\frac{4\sqrt{2}}{2\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$

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

$\frac{4\sqrt{6}}{6}$

$\frac{2\sqrt{6}}{3}$

16. $\frac{8}{3\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\frac{8\sqrt{2}}{3 \cdot 2}$

$\frac{8\sqrt{2}}{6}$

$\frac{4\sqrt{2}}{3}$