_____ Class _____ Date _____

Practice 9-4

Example Exercises

Example 1

Simplify each radical expression. Assume that all variables under radicals represent positive numbers.

1. $\sqrt{50}$	2 . $\sqrt{48}$	3 . $\sqrt{20}$	4. $\sqrt{8}$	5. $\sqrt{25x^5}$	6 . √75
7. $\sqrt{300}$	8. $\sqrt{49a^3}$	9 . $\sqrt{125}$	10 . $\sqrt{28}$	11 . $\sqrt{63}$	12 . √72

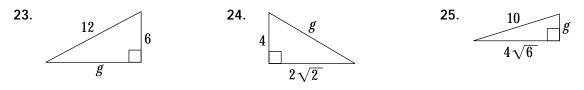
Example 2

Simplify each radical expression. Assume that all variables under radicals represent positive numbers.

13.	$6\sqrt{20}$	14.	$\sqrt{8} \cdot \sqrt{2}$	15.	$\sqrt{ab^3}$	16.	$\sqrt{30}$ • $\sqrt{6}$	17.	$12\sqrt{60x^2}$
18.	$\left(2\sqrt{3}\right)^2$	19.	$\sqrt{12}$ • $\sqrt{27}$	20.	$\left(7\sqrt{5}\right)^2$	21.	$\sqrt{a^5b^6}$	22.	$\sqrt{14} \cdot \sqrt{8}$

Example 3

Find g. Evaluate any radicals and round to the nearest tenth.



Examples 4-6

Simplify each radical expression. Assume that all variables under radicals represent positive numbers.

26. $\sqrt{\frac{7}{9}}$	27 . $\sqrt{\frac{17}{64}}$	28. $\frac{\sqrt{48}}{\sqrt{8}}$	29. $\frac{\sqrt{120}}{\sqrt{10}}$	30. $\frac{5}{\sqrt{2}}$
31 . $\frac{7}{\sqrt{3}}$	32 . $\sqrt{\frac{15}{49}}$	33 . $\frac{\sqrt{60}}{\sqrt{12}}$	34 . $\frac{3}{\sqrt{3}}$	35 . $\frac{4}{\sqrt{8}}$