

Approximating and Rewriting Radicals

Period _____

Simplify by rewriting radicals and extracting perfect squares to find an exact solution.

1) $\sqrt{12}$

2) $\sqrt{36}$

3) $\sqrt{125}$

4) $\sqrt{18}$

Solve each equation, taking the square roots of both sides. Round to the 10ths place, if necessary.

5) $a^2 = 64$

6) $m^2 = 0$

7) $3x^2 = 159$

8) $x^2 - 6 = 94$

9) $(x - 4)^2 = 0$

10) $(n + 9)^2 = 55$

11) $(x - 2)^2 + 4 = 79$

12) $(b + 9)^2 + 4 = 40$