

Name: _____ is Confident! 😊
Date: _____

Math 115 Spring 2026
Mr. Sahney

Standard 15 Practice

1. Evaluate the given radical.

a. $\sqrt{\frac{16}{81}}$

b. $\sqrt{\frac{45}{20}}$

2. Simplify the radical expressions completely:

a. $\frac{\sqrt{63n^6}}{\sqrt{4n^4}}$

b. $\frac{\sqrt{80k^{12}x^6}}{\sqrt{9k^8x^{10}}}$

3. Rationalize and simplify:

a. $\frac{6}{\sqrt{6}}$

b. $\frac{11}{\sqrt{7}}$

c. $\sqrt{\frac{6}{x^3}}$

d. $\frac{4}{3 - \sqrt{7}}$

e. $\frac{\sqrt{x} + \sqrt{2}}{\sqrt{x} - \sqrt{2}}$

4. Solve the following radical equations:

a. $\sqrt{x + 15} = 3$

b. $11 = 2\sqrt{y} + 7$

c. $8\sqrt{c + 2} - 5 = 9$

d. $\sqrt{2x + 15} = x$

e. $x - 1 = 2\sqrt{x + 2}$