

Name: _____

Date: _____

Learning Goal 5.1

Express an entire radical as a simplified mixed radical and vice versa. Identify and order irrational numbers.

Convert each mixed radical into an entire radical. State the values of the variable for which the radical is a real number.

1. $4\sqrt{3}$

2. $j^3\sqrt{j}$

3. $2k^2(\sqrt[3]{4k})$

Express each entire radical as a mixed radical in simplest form. Identify any restrictions on the values for the variables.

1. $\sqrt{52}$

2. $\sqrt[4]{m^7}$

3. $\sqrt{63n^7p^4}$