

# Practice

## 8.14

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Sort the numbers based on whether they are rational or irrational.

$$\begin{array}{ccc} 0.1234 & -\sqrt{12} & \frac{-13}{3} \\ -\sqrt{100} & \sqrt{37} & -77 \end{array}$$

Rational	Irrational

2. Select *all* the rational numbers.

- ☐ A.  $\pi^2$ 
☐ B.  $\sqrt{14}$ 
☐ C.  $-\sqrt{99}$   
☐ D.  $-\sqrt{100}$ 
☐ E.  $-\frac{123}{45}$ 
☐ F.  $\sqrt{64}$

3. Determine whether each number is rational or irrational.

Number	Rational	Irrational
$\frac{1}{\sqrt{16}}$		
$\sqrt{10}$		
$-2\frac{1}{3}$		
0.532		

4. Eliza claims that  $\sqrt{\frac{7}{9}}$  is rational. Is her claim correct?

Explain your thinking.