

## 9.4

## Practice

For use with pages 470-474

Tell whether the number is *rational* or *irrational*.

1.  $\frac{1}{7}$

2.  $\sqrt{\frac{1}{7}}$

3.  $1.\overline{12}$

4.  $-\sqrt{17}$

5.  $-\sqrt{\frac{8}{2}}$

6.  $\sqrt{\frac{21}{3}}$

7.  $\frac{\sqrt{5}}{16}$

8.  $\frac{\sqrt{16}}{5}$

Complete the statement using  $<$ ,  $>$ , or  $=$ .

9.  $\sqrt{\frac{1}{4}} \text{ — } \frac{1}{4}$

10.  $4 \text{ — } \sqrt{\frac{32}{2}}$

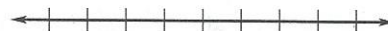
11.  $-\sqrt{8} \text{ — } -\frac{10}{3}$

In Exercises 12–15, use a number line to order the numbers from least to greatest.

12.  $\frac{12}{11}, \sqrt{1.1}, \frac{\sqrt{10}}{3}, \sqrt{\frac{10}{3}}$



13.  $4.2, \sqrt{17}, \frac{17}{4}, \sqrt{\frac{81}{5}}$



14.  $\sqrt{\frac{5}{9}}, \frac{2}{3}, \sqrt{\frac{7}{9}}, 0.7514, 0.\overline{75}$



15.  $\sqrt{31}, 5.5, \frac{\sqrt{75}}{2}, \frac{28}{5}, \sqrt{\frac{55}{2}}$

