

# Lesson 10 Homework Practice

## Compare Real Numbers

Name all sets of numbers to which the real number belongs.

1.  $-9$

2.  $\sqrt{144}$

3.  $\sqrt{35}$

4.  $\frac{8}{11}$

5.  $9.55$

6.  $5.\bar{3}$

7.  $\frac{20}{5}$

8.  $-\sqrt{44}$

Replace  $\bullet$  each with  $<$ ,  $>$ , or  $=$  to make a true statement.

9.  $\sqrt{8} \bullet 2.7$

10.  $\sqrt{15} \bullet 3.9$

11.  $5\frac{2}{5} \bullet \sqrt{30}$

12.  $2\frac{3}{10} \bullet \sqrt{5.29}$

13.  $\sqrt{9.8} \bullet 3.\bar{1}$

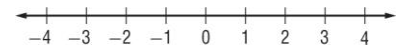
14.  $8.\bar{2} \bullet 8\frac{2}{9}$

Order each set of numbers from least to greatest. Verify your answer by graphing on a number line.

15.  $\sqrt{10}, \sqrt{8}, 2.75, 2.\bar{8}$

16.  $5.01, 5.0\bar{1}, 5.\bar{0}1, \sqrt{26}$

17.  $-\sqrt{12}, \sqrt{13}, -3.5, 3.5$



18. **ALGEBRA** The *geometric mean* of two numbers  $a$  and  $b$  is  $\sqrt{ab}$ . Find the geometric mean of 32 and 50.

19. **ART** The area of a square painting is 600 square inches. To the nearest hundredth inch, what is the perimeter of the painting?