**Reteach: 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.$\overbar{3}$ **7.** $\frac{20}{5}$ **8.** $-\sqrt{44}$

**Replace each with <, >, or = to make a true statement.**

 **9.** $\sqrt{8}$ 2.7 **10.** $\sqrt{15}$ 3.9 **11.** 5$\frac{2}{3}$ $\sqrt{30}$

 **12.** 2$\frac{3}{10}$ $\sqrt{5.29}$ **13.** $\sqrt{9.8}$ 3.$\overbar{1}$ **14.** 8.$\overbar{2}$ 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.$\overbar{8}$ **16.** 5.01, 5.0$\overbar{1}$, 5.$\overbar{01}$, $\sqrt{26}$ **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?