## 1-2 Practice

Form G

Properties of Real Numbers

## Classify each variable according to the set of numbers that best describes its values.

- **1.** the area of the circle A found by using the formula  $\pi r^2$
- **2.** the number n of equal slices in a pizza; the portion p of the pizza in one slice
- **3.** the air temperature *t* in Saint Paul, MN, measured to the nearest degree Fahrenheit
- **4.** the last four digits *s* of a Social Security number

## Graph each number on a number line.

**5.** -1 **6.**  $\sqrt{3}$  **7.** 2.8 **8.**  $-2\frac{1}{2}$ 

Compare the two numbers. Use > or <.

- 9.  $-\sqrt{2}, -2$  10.  $4, \sqrt{17}$  

   11.  $\sqrt{29}, 5$  12.  $\sqrt{50}, 6.8$
- **13.**  $11,\sqrt{130}$  **14.**  $-6,-\sqrt{30}$
- **15.**  $7\frac{1}{2}, \sqrt{67}$  **16.**  $-\sqrt{10}, -\sqrt{12}$

Name the property of real numbers illustrated by each equation.

<b>17.</b> $2(3+\sqrt{5}) = 2\cdot 3 + 2\cdot \sqrt{5}$	<b>18.</b> 16 + (-13) = -13 + 16
<b>19.</b> $-7, \frac{1}{-7} = 1$	<b>20.</b> $5(0.2 \cdot 7) = (5 \cdot 0.2) \cdot 7$

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Class \_\_\_\_\_ Date\_

## Practice (continued) 1-2 **Properties of Real Numbers**

Estimate the numbers graphed at the labeled points.

**21.** point A

**23.** point C

22. point B

**24.** point D

Geometry To find the length of side b of a rectangular prism with a square base, use the formula  $b = \sqrt{\frac{V}{h'}}$  where V is the volume of the prism and *h* is the height. Which set of numbers best describes the value of b for the given values of V and h?



**25.** 
$$V = 100, h = 5$$
 **26.**  $V = 100, h = 25$ 

**27.** 
$$V = 100, h = 20$$
 **28.**  $V = 5, h = 20$ 

Write the numbers in increasing order.

**29.** 
$$2\sqrt{2}, \frac{4}{5}, -\frac{5}{4}, 0.9, -1$$
 **30.**  $\frac{5}{8}, -6, \frac{2}{3}, -\pi, -0.5$ 

Justify the equation by stating one of the properties of real numbers.

**31.** 
$$(x + 37) + (-37) = x + (37 + (-37))$$

**32.**  $x \cdot 1 = x$ 

**33.** 
$$x + (37 + (-37)) = x + 0$$

**34.** x + 0 = x

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