Date\_

Form K

## 1-2 Properties of Real Numbers

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

- 1. the number of students in your class To start, make a list of some numbers that could describe the number of students in your class.
- 2. the area of the circle A found by using the formula  $A = \pi r^2$ To start, make a list of some numbers that could describe the area of a circle.
- **3.** the elevation *e* of various land points in the United States measured to the nearest foot To start, make a list of some numbers that could describe elevation levels.

## Graph each number on a number line.



## **8.** $\sqrt{8}$

To start, use a calculator to approximate the square root.

## Compare the two numbers. Use < or >.

- **9.**  $\sqrt{50}$  and 8.8 **10.** 5 and  $\sqrt{23}$
- **11.** 6.2 and  $\sqrt{40}$  **12.**  $-\sqrt{3}$  and -3

1-2	Practice (continued)	Form K
	Properties of Real Numbers	
Name the prop	erty of real numbers illustrated by each equation.	
<b>13.</b> $\frac{2}{3} \cdot \frac{3}{2} = 1$	<b>14.</b> $6(2+x) = 6 \cdot 2 + 6 \cdot x$	
<b>15.</b> $2 \cdot 20 = 20 \cdot 10^{-10}$	2 <b>16.</b> $8 + (-8) = 0$	

**17.**  $2(0.5 \cdot 4) = (2 \cdot 0.5) \cdot 4$ **18.** -11 + 5 = 5 + (-11)

Estimate the numbers granhed at	C A		B D					
the labeled points.	-5 -4 -3 -2 -1	0	1	2	3	4	5	<b>→</b>
<b>19.</b> point <i>A</i>	<b>20.</b> point <i>B</i>							

**21.** point *C* **22.** point *D* 

To find the length of the side b of the square base of a rectangular prism, 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? **24.** V = 100, h = 10**23.** V = 100, h = 1

Write the numbers in increasing order.

**25.** 
$$\frac{5}{6}, \sqrt{28}, -\frac{5}{2}, -0.8, 1$$
 **26.**  $\frac{2}{3}, -4, \sqrt{32}, \sqrt{13}, -0.4$ 

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