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## 1-2 <br> Practice <br> Form K <br> 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.
4. $5 \frac{1}{2}$
5. -4
6. 2.25
7. $-6 \frac{1}{3}$
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
$\qquad$
$\qquad$ Date $\qquad$
1-2
Practice (continued)
Form K
Properties of Real Numbers

Name the property of real numbers illustrated by each equation.
13. $\frac{2}{3} \cdot \frac{3}{2}=1$
14. $6(2+x)=6 \cdot 2+6 \cdot x$
15. $2 \cdot 20=20 \cdot 2$
16. $8+(-8)=0$
17. $2(0.5 \cdot 4)=(2 \cdot 0.5) \cdot 4$
18. $-11+5=5+(-11)$

Estimate the numbers graphed at the labeled points.

19. point $A$
20. point $B$
21. point $C$
22. point $D$

To find the length of the side $\boldsymbol{b}$ 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 $\boldsymbol{b}$ for the given values of $\boldsymbol{V}$ and $\boldsymbol{h}$ ?
23. $V=100, h=1$
24. $V=100, h=10$

Write the numbers in increasing order.
25. $\frac{5}{6}, \sqrt{28},-\frac{5}{2},-0.8,1$
26. $\frac{2}{3},-4, \sqrt{32}, \sqrt{13},-0.4$

