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## 1-2 Practice

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.
17. $2(3+\sqrt{5})=2 \cdot 3+2 \cdot \sqrt{5}$
18. $16+(-13)=-13+16$
19. $-7, \frac{1}{-7}=1$
20. $5(0.2 \cdot 7)=(5 \cdot 0.2) \cdot 7$
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## 1-2 Practice (continued) <br> Properties of Real Numbers

Estimate the numbers graphed at the labeled points.

21. point $A$
23. point $C$
24. point D

Geometry To find the length of side $b$ of a rectangular prism with a square base, use the formula $b=\sqrt{\frac{V}{h^{\prime}}}$ 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. $x+0=x$

