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## Practice 1-3

Name the set(s) of numbers to which each number belongs.

1. -0.002
2. $12 \frac{1}{2}$
3. 8
4. $5 p$
5. $\sqrt{7}$
6. -22
7. -3.4
8. $\sqrt{36}$

Is each statement true or false? If the statement is false, give a counterexample.
9. Every whole number is an integer.
10. Every integer is a whole number.
11. Every rational number is a real number.
12. Every multiple of 7 is odd.

Use $<,=$, or $>$ to compare.
13. $-10.98 \square-10.99$
14. $-\frac{1}{3}--0.3$
15. $\frac{11}{5}-\frac{4}{5}$
16. $-\frac{1}{2}-\frac{5}{10}$
17. $-\frac{3}{8}-\frac{7}{16}$
18. $\frac{3}{4}-\frac{13}{16}$

Order the numbers in each group from least to greatest.
19. $-\frac{8}{9},-\frac{7}{8},-\frac{22}{25}$
20. $-3 \frac{4}{9},-3.45,-3 \frac{12}{25}$
21. $-\frac{1}{4},-\frac{1}{5},-\frac{1}{3}$
22. $-1.7,-1 \frac{3}{4},-1 \frac{7}{9}$
23. $-\frac{3}{4},-\frac{7}{8},-\frac{2}{3}$
24. $2 \frac{3}{4}, 2 \frac{5}{8}, 2.7$

Determine which set of numbers is most reasonable for each situation.
25. the number of dolphins in the ocean
26. the height of a basketball player
27. the number of pets you have
28. the circumference of a compact disk

Find each absolute value.
29. $\left|\frac{3}{10}\right|$
30. |2327|
31. $|23.46|$
32. $\left|-\frac{1}{2}\right|$
33. Name the sets(s) of numbers to which each number in the table belongs. Choose among: whole numbers, integers, rational numbers, irrational numbers, and real numbers.

| Type of <br> Account | Principal | Rate | Time <br> (years) | Interes <br> $\mathbf{t}$ |
| :--- | :--- | :--- | :--- | :---: |
| Checking | $\$ 154.23$ | 0.0375 | $\frac{30}{365}$ | $\$ .48$ |
| Savings | $\$ 8000$ | 0.055 | $3 \frac{1}{2}$ | $\$ 1540$ |

